



# **STIC Search Report**

## **EIC 1700**

**STIC Database Tracking Number: 212322**

**TO: Necholus Ogden**  
**Location: Remsen 9a31**  
**Art Unit : 1751**  
**January 11, 2007**  
**Phone: 571-272-1322**  
**Serial Number: 09 / 655964**

**From: Jan Delaval**  
**Location: EIC 1700**  
**Remsen 4a30**  
**Phone: 571-272-2504**  
**jan.delaval@uspto.gov**

### **Search Notes**

Access DB# 212322

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Nicholas OGDEN Examiner #: 71476 Date: 1-8-96  
Art Unit: 1751 Phone Number 30 2322 Serial Number: 091655, 964  
Mail Box and Bldg/Room Location: 9431 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Branched Primary Alcohol Comp...SCIENTIFIC REFERENCE Bk  
Sci & Tech Inf. CtrInventors (please provide full names): Singleten, David M. et al. JAN 05 1996Earliest Priority Filing Date: 11/26/1994

Pat. &amp; TMA Office

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the Sulfate ~~compounds~~ <sup>compounds</sup>  
Claims 1, 77, 85, 94.

If possible narrow search to Detergent or  
Cleaning Comp

## STAFF USE ONLY

Searcher: JanSearcher Phone #: 22504

Searcher Location: \_\_\_\_\_

Date Searcher Picked Up: 1/16/97Date Completed: 1/16/97

Searcher Prep &amp; Review Time: \_\_\_\_\_

Clerical Prep Time: 30Online Time: 5:00

## Type of Search

NA Sequence (#) \_\_\_\_\_

AA Sequence (#) \_\_\_\_\_

Structure (#) ✓

Bibliographic \_\_\_\_\_

Litigation \_\_\_\_\_

Fulltext \_\_\_\_\_

Patent Family \_\_\_\_\_

Other \_\_\_\_\_

## Vendors and cost where applicable

STN ✓

Dialog \_\_\_\_\_

Questel/Orbit \_\_\_\_\_

Dr.Link \_\_\_\_\_

Lexis/Nexis \_\_\_\_\_

Sequence Systems \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other (specify) \_\_\_\_\_

=> fil reg  
 FILE 'REGISTRY' ENTERED AT 09:57:57 ON 11 JAN 2007  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 10 JAN 2007 HIGHEST RN 917201-58-2  
 DICTIONARY FILE UPDATES: 10 JAN 2007 HIGHEST RN 917201-58-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

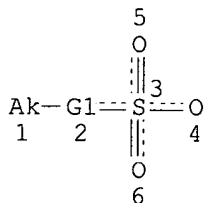
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
 predicted properties as well as tags indicating availability of  
 experimental property data in the original document. For information  
 on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d sta que l50  
 L48 STR



REP G1=(0-1) O  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS BRA AT 1  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS M8 C AT 1

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE  
 L50 458 SEA FILE=REGISTRY CSS FUL L48

100.0% PROCESSED 764379 ITERATIONS  
 SEARCH TIME: 00.00.09

458 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 08:43:10 ON 11 JAN 2007)  
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 08:43:27 ON 11 JAN 2007

L1 1 S (US6150322 OR US5849960)/PN OR (US98-133303# OR US96-755843#)  
 E SINGLETON/AU  
 E SINGLETON D/AU  
 L2 68 S E3,E12,E20,E26,E27  
 E KRAVETZ/AU  
 L3 46 S E18-E22  
 E MURRAY/AU  
 L4 2 S E3  
 E MURRAY B/AU  
 L5 28 S E3  
 E MURRAY BREND/AU  
 L6 78 S E6,E8,E9,E10  
 E ALCOHOL/CW,CT  
 L7 1192 S E3,E4  
 E ALCOHOLS/CW,CT  
 L8 149569 S E3,E4,E5  
 L9 150758 S L7,L8  
 L10 1020 S L9 (L) BRANCH?  
 L11 38 S L10 (L) (SULFAT? OR SULPHAT?)  
 L12 2 S L1-L6 AND L11  
 L13 13 S L11 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)  
 L14 1 S L12 AND L13  
 L15 13 S L13,L14  
 L16 210 S L1-L6 NOT L12  
 L17 42 S L16 AND L9  
 L18 17 S L17 AND L10  
 L19 9 S L18 AND (?SULFAT? OR ?SULPHAT?)  
 L20 8 S L19 NOT 60/SC  
 L21 8 S L18 NOT L19  
 L22 2 S L18 AND (?SULFONAT? OR ?SULPHONAT?)  
 L23 1 S L22 NOT 60/SC  
 L24 167 S L10 AND (?SULFAT? OR ?SULPHAT?)  
 L25 114 S L10 AND (?SULFONAT? OR ?SULPHONAT?)  
 L26 62 S L24,L25 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)  
 L27 71 S L14,L20,L23,L26

FILE 'REGISTRY' ENTERED AT 08:56:41 ON 11 JAN 2007

FILE 'HCAPLUS' ENTERED AT 08:56:41 ON 11 JAN 2007

L28 TRA L27 1- RN : 615 TERMS

FILE 'REGISTRY' ENTERED AT 08:56:43 ON 11 JAN 2007

L29 615 SEA L28  
 L30 86 S L29 AND UNSPECIFIED  
 L31 51 S L30 AND ENTE/FA  
 L32 529 S L29 NOT L30  
 L33 114 S L32 AND S/ELS  
 L34 111 S L33 AND O/ELS  
 L35 59 S L34 AND PMS/CI  
 L36 56 S L35 NOT (N/ELS OR "(C2H4O)NC12H22O7S.NA"/MF)  
 L37 3 S L35 NOT L36  
 L38 1 S 181355-78-2  
 L39 57 S L36,L38  
 L40 52 S L34 NOT L35  
 L41 19 S L40 AND NR>=1  
 L42 33 S L40 NOT L41  
 L43 19 S L42 AND C>=8  
 L44 12 S L43 AND (C16H34O4S OR C18H38O4S OR C12H26O4S OR C17H36O4S OR

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                SEL RN 9-12
L45             8 S L44 NOT E1-E4
L46             STR
L47             8 S L46 CSS SAM
L48             STR L46
L49             2 S L48 CSS
L50             458 S L48 CSS FUL
                SAV L50 OGDEN655/A
L51             19291 S C2H4O AND S/ELS
L52             8375 S L51 NOT C6/ES
L53             3525 S L52 NOT (N OR P OR SI)/ELS
L54             2962 S L53 AND 1/S
L55             1881 S L54 NOT PROPEN?
L56             568 S L55 AND NR>=1
L57             399 S L56 AND OC2/ES
L58             389 S 75-21-8/CRN AND L57
L59             43 S L58 AND 1/NR
L60             1313 S L55 NOT L56
L61             690 S L60 AND (S AND C AND O AND H)/ELS AND 4/ELC.SUB
L62             178 S L61 AND OXO
L63             512 S L61 NOT L62
L64             STR
L65             2 S L64 CSS SAM SUB=L63
L66             92 S L64 CSS FUL SUB=L63
                SAV L66 OGDEN655A/A
L67             45 S L66 NOT L39,L45
L68             43 S L67 NOT C4H10O2S
L69             11 S L68 AND ("(C2H4O)NC18H38O5S" OR "(C2H4O)NC20H42O6S" OR "(C2H4
L70             3 S L68 AND ("(C2H4O)NC19H40O6S" OR "(C2H4O)NC18H38O6S" OR "(C2H4
L71             29 S L68 NOT L69,L70
L72             546 S L39,L45,L50,L71
                SAV L72 OGDEN655B/A
L73             460 S L72 NOT C2H4O
L74             86 S L72 NOT L73
L75             7 S L74 AND ("(C2H4O)NC12H26O4S.NA" OR "(C2H4O)NH2O4S" OR "(C2H4O
                SEL RN 1-3
L76             3 S E5-E7
L77             4 S L75 NOT L76
L78             82 S L74 NOT L77
                SAV L78 OGDEN655C/A
                SAV L73 OGDEN655D/A
L79             213 S L73 AND NC>=2
L80             2 S L79 AND PMS/CI
L81             211 S L79 NOT L80
L82             24 S L81 NOT SALT
L83             5 S L82 AND (C6H15N OR C6H15NO3 OR C20H43N OR C12H26O5S)
L84             187 S L81 NOT L82
L85             14 S L84 AND (NR>=1 OR IUM)
L86             4 S L85 AND H3N
L87             173 S L84 NOT L85
L88             170 S L87 NOT (11C# OR 13C# OR 14C# OR C11# OR C13# OR C14# OR LABE
L89             179 S L83,L86,L88
                SAV L89 OGDEN655E/A
L90             32 S L81 NOT L89
L91             1 S L90 AND C12H26O4S
L92             180 S L89,L91

FILE 'HCAPLUS' ENTERED AT 09:42:16 ON 11 JAN 2007
L93             785 S L92
L94             298 S L78

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L95 257 S L93 AND PY<=1996 NOT P/DT  
L96 256 S L93 AND (PD<=19961126 OR PRD<=19961126 OR AD<=19961126) AND P  
L97 513 S L95,L96  
L98 50 S L94 AND PY<=1996 NOT P/DT  
L99 109 S L94 AND (PD<=19961126 OR PRD<=19961126 OR AD<=19961126) AND P  
L100 159 S L98,L99  
L101 145 S L97 AND DETERGENT?/SC,SX,CW,CT,BI  
L102 80 S L100 AND DETERGENT?/SC,SX,CW,CT,BI  
E DETERGENT/CT  
L103 2865 S E61-E68  
L104 1141 S E2+OLD,NT  
L105 912 S E4+OLD,NT  
L106 47324 S E12-E60  
E E12+ALL  
L107 23497 S E73+OLD,NT OR E76+OLD,NT  
L108 59 S L97 AND L103-L107  
L109 46 S L100 AND L103-L107  
L110 147 S L101,L108  
L111 81 S L102,L109  
L112 0 S L1-L6 AND L110,L111  
SEL RN L1

FILE 'REGISTRY' ENTERED AT 09:47:10 ON 11 JAN 2007

L113 7 S E1-E7

FILE 'HCAPLUS' ENTERED AT 09:47:30 ON 11 JAN 2007

L114 1 S L113 AND L1  
L115 1 S L114 AND L7-L27  
E SHAMPOO/CT  
L116 9455 S E8+OLD,NT OR E8-E11  
E SCORING/CT  
E SCOURING/CT  
L117 1182 S E5+OLD,NT OR E5,E6,E7,E8,E9  
L118 3 S L97 AND L116,L117  
L119 16 S L100 AND L116,L117  
L120 148 S L110,L118  
L121 92 S L111,L119  
L122 74 S L120 AND P/DT  
L123 44 S L122 AND US/PC,PRC,AC  
L124 18 S L123 NOT DETERGENT?/SC  
L125 8 S L124 AND (TEXTILE? OR COSMETIC?)/SC  
L126 44 S L123,L125  
L127 58 S L121 AND P/DT  
L128 15 S L127 AND US/PC,PRC,AC  
L129 5 S L128 NOT DETERGENT?/SC  
L130 4 S L129 AND (TEXTILE? OR COSMETIC?)/SC  
L131 1 S L129 NOT L130  
L132 14 S L128 NOT L131  
L133 55 S L126,L132

FILE 'REGISTRY' ENTERED AT 09:57:57 ON 11 JAN 2007

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 09:58:17 ON 11 JAN 2007

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FILE COVERS 1907 - 11 Jan 2007 VOL 146 ISS 3  
FILE LAST UPDATED: 10 Jan 2007 (20070110/ED)

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=> d 1115 all hitstr retable

L115 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:388486 HCAPLUS

DN 129:55771

ED Entered STN: 25 Jun 1998

TI Highly branched primary alcohol compositions, preparation thereof and biodegradable detergents therefrom

IN **Kravetz, Louis; Murray, Brendan Dermot; Singleton, David Michael**

PA Shell Internationale Research Maatschappij BV, Neth.

SO PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07C0031-125

ICS C07C0043-13; C07C0305-06; C07C0053-126; C11D0001-72; C11D0001-14; C11D0001-29

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 23

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9823566	A1	19980604	WO 1997-EP6694	19971125 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5780694	A	19980714	US 1996-755827	19961126 <--
	US 5849960	A	19981215	US 1996-755843	19961126 <--
	ZA 9710543	A	19980610	ZA 1997-10543	19971124 <--
	CA 2271200	A1	19980604	CA 1997-2271200	19971125 <--
	AU 9856569	A	19980622	AU 1998-56569	19971125 <--
	AU 725968	B2	20001026		
	EP 958267	A1	19991124	EP 1997-952830	19971125 <--
	EP 958267	B1	20040331		
	R: BE, DE, ES, FR, GB, IT, NL, SE, PT				
	CN 1238749	A	19991215	CN 1997-199966	19971125 <--
	CN 1090599	B	20020911		

BR 9713144	A	20000208	BR 1997-13144	19971125 <--
NZ 334834	A	20000728	NZ 1997-334834	19971125 <--
JP 2001506597	T	20010522	JP 1998-524301	19971125 <--
RU 2198159	C2	20030210	RU 1999-113994	19971125 <--
PT 958267	T	20040831	PT 1997-952830	19971125 <--
ES 2214650	T3	20040916	ES 1997-952830	19971125 <--
RO 120404	B1	20060130	RO 1999-592	19971125 <--
SK 285235	B6	20060907	SK 1999-686	19971125 <--
US 6222077	B1	20010424	US 1998-54171	19980402 <--
MX 9904065	A	20000131	MX 1999-4065	19990430 <--
BG 64047	B1	20031128	BG 1999-103445	19990528 <--
PRAI US 1996-755827	A	19961126 <--		
US 1996-755843	A	19961126 <--		
WO 1997-EP6694	W	19971125		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9823566	ICM	C07C0031-125
	ICS	C07C0043-13; C07C0305-06; C07C0053-126; C11D0001-72; C11D0001-14; C11D0001-29
	IPCI	C07C0031-125 [ICM,6]; C07C0031-00 [ICM,6,C*]; C07C0043-13 [ICS,6]; C07C0043-00 [ICS,6,C*]; C07C0305-06 [ICS,6]; C07C0305-00 [ICS,6,C*]; C07C0053-126 [ICS,6]; C07C0053-00 [ICS,6,C*]; C11D0001-72 [ICS,6]; C11D0001-14 [ICS,6]; C11D0001-29 [ICS,6]; C11D0001-02 [ICS,6,C*]
	IPCR	B01J0029-00 [I,C*]; B01J0029-65 [I,A]; C07C0029-00 [I,C*]; C07C0029-16 [I,A]; C07C0031-00 [I,C*]; C07C0031-125 [I,A]; C07C0041-00 [I,C*]; C07C0041-03 [I,A]; C07C0043-00 [I,C*]; C07C0043-11 [I,A]; C07C0043-13 [I,A]; C07C0305-00 [I,C*]; C07C0305-06 [I,A]; C07C0305-10 [I,A]; C11D0001-02 [I,C*]; C11D0001-04 [I,A]; C11D0001-14 [I,A]; C11D0001-29 [I,A]; C11D0001-72 [I,C*]; C11D0001-72 [I,A]
	ECLA	C07C031/125; C07C043/11; C07C305/06; C07C305/10; C11D001/04; C11D001/14D; C11D001/29; C11D001/72
US 5780694	IPCI	C07C0027-20 [ICM,6]; C07C0027-00 [ICM,6,C*]
	IPCR	C07C0031-00 [I,C*]; C07C0031-125 [I,A]; C07C0043-00 [I,C*]; C07C0043-11 [I,A]; C07C0305-00 [I,C*]; C07C0305-06 [I,A]; C07C0305-10 [I,A]; C11D0001-02 [I,C*]; C11D0001-04 [I,A]; C11D0001-14 [I,A]; C11D0001-29 [I,A]; C11D0001-72 [I,A]; C11D0001-72 [I,C*]
	NCL	568/909.000; 585/512.000
	ECLA	C07C031/125; C07C043/11; C07C305/06; C07C305/10; C11D001/04; C11D001/14D; C11D001/29; C11D001/72
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	IPCR	C07C0031-00 [I,C*]; C07C0031-125 [I,A]; C07C0043-00 [I,C*]; C07C0043-11 [I,A]; C07C0305-00 [I,C*]; C07C0305-06 [I,A]; C07C0305-10 [I,A]; C11D0001-02 [I,C*]; C11D0001-04 [I,A]; C11D0001-14 [I,A]; C11D0001-29 [I,A]; C11D0001-72 [I,A]; C11D0001-72 [I,C*]
	NCL	568/909.000; 252/182.110; 585/512.000
	ECLA	C07C031/125; C07C043/11; C07C305/06; C07C305/10; C11D001/04; C11D001/14D; C11D001/29; C11D001/72
ZA 9710543	IPCI	B01J [ICM,6]; C07C [ICS,6]
	IPCR	C07C0031-00 [I,C*]; C07C0031-125 [I,A]; C07C0043-00 [I,C*]; C07C0043-11 [I,A]; C07C0305-00 [I,C*]; C07C0305-06 [I,A]; C07C0305-10 [I,A]; C11D0001-02



		[I,C*]; C11D0001-04 [I,A]; C11D0001-14 [I,A]; C11D0001-29 [I,A]; C11D0001-72 [I,C*]; C11D0001-72 [I,A]
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	IPCR	B01J0029-00 [I,C*]; B01J0029-65 [I,A]; C07C0029-00 [I,C*]; C07C0029-16 [I,A]; C07C0031-00 [I,C*]; C07C0031-125 [I,A]; C07C0041-00 [I,C*]; C07C0041-03 [I,A]; C07C0043-00 [I,C*]; C07C0043-11 [I,A]; C07C0043-13 [I,A]; C07C0305-00 [I,C*]; C07C0305-06 [I,A]; C07C0305-10 [I,A]; C11D0001-02 [I,C*]; C11D0001-04 [I,A]; C11D0001-14 [I,A]; C11D0001-29 [I,A]; C11D0001-72 [I,C*]; C11D0001-72 [I,A]
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 C07C0053-126 [ICS,7]; C07C0053-00 [ICS,7,C\*];  
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ES 2214650	IPCI	C07C0031-125 [ICM,7]; C07C0031-00 [ICM,7,C*]; C07C0043-13 [ICS,7]; C07C0043-00 [ICS,7,C*]; C07C0305-06 [ICS,7]; C07C0305-00 [ICS,7,C*]; C07C0053-126 [ICS,7]; C07C0053-00 [ICS,7,C*]; C11D0001-72 [ICS,7]; C11D0001-14 [ICS,7]; C11D0001-29 [ICS,7]; C11D0001-02 [ICS,7,C*]
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RO 120404	IPCI	C07C0031-00 [I,C]; C07C0043-00 [I,C]; C07C0053-00 [I,C]; C07C0305-00 [I,C]; C11D0001-02 [I,C]; C11D0001-72 [I,C]; C07C0031-125 [I,A]; C07C0043-13 [I,A]; C07C0053-126 [I,A]; C07C0305-06 [I,A]; C11D0001-14 [I,A]; C11D0001-29 [I,A]; C11D0001-72 [I,A]
	IPCR	B01J0029-00 [I,C*]; B01J0029-65 [I,A]; C07C0031-00 [I,C]; C07C0031-125 [I,A]; C07C0029-00 [I,C*]; C07C0029-16 [I,A]; C07C0041-00 [I,C*]; C07C0041-03 [I,A]; C07C0043-00 [I,C]; C07C0043-11 [I,A]; C07C0043-13 [I,A]; C07C0053-00 [I,C]; C07C0053-126 [I,A]; C07C0305-00 [I,C]; C07C0305-06 [I,A]; C07C0305-10 [I,A]; C11D0001-02 [I,C]; C11D0001-04 [I,A]; C11D0001-14 [I,A]; C11D0001-29 [I,A]; C11D0001-72 [I,C]; C11D0001-72 [I,A]
	ECLA	C07C031/125; C07C043/11; C07C305/06; C07C305/10; C11D001/04; C11D001/14D; C11D001/29; C11D001/72
SK 285235	IPCR	B01J0029-00 [I,C*]; C07C0031-00 [I,C*]; C07C0029-00 [I,C*]; C07C0041-00 [I,C*]; C07C0043-00 [I,C*]; C07C0053-00 [I,C*]; C07C0305-00 [I,C*]; C11D0001-02 [I,C*]; C11D0001-72 [I,C*]; B01J0029-65 [I,A]; C07C0029-16 [I,A]; C07C0031-125 [I,A]; C07C0041-03 [I,A]; C07C0043-11 [I,A]; C07C0043-13 [I,A]; C07C0305-06 [I,A]; C07C0305-10 [I,A]; C11D0001-04 [I,A]; C11D0001-14 [I,A]; C11D0001-29 [I,A]; C11D0001-72 [I,A]
	ECLA	C07C031/125; C07C043/11; C07C305/06; C07C305/10; C11D001/04; C11D001/14D; C11D001/29; C11D001/72
US 6222077	IPCI	C07C0027-20 [ICM,7]; C07C0027-00 [ICM,7,C*]; C11D0014-02 [ICS,7]; C11D0003-22 [ICS,7]; C11D0017-00 [ICS,7]; C09K0003-00 [ICS,7]
	IPCR	C07C0031-00 [I,C*]; C07C0031-125 [I,A]; C07C0043-00 [I,C*]; C07C0043-11 [I,A]; C07C0305-00 [I,C*]; C07C0305-06 [I,A]; C07C0305-10 [I,A]; C11D0001-02 [I,C*]; C11D0001-04 [I,A]; C11D0001-14 [I,A]; C11D0001-29 [I,A]; C11D0001-72 [I,A]; C11D0001-72 [I,C*]
	NCL	568/909.000; 252/182.110; 510/235.000; 510/275.000; 510/276.000; 510/426.000; 585/510.000; 585/512.000
	ECLA	C07C031/125; C07C043/11; C07C305/06; C07C305/10; C11D001/04; C11D001/14D; C11D001/29; C11D001/72

MX 9904065 IPCI C07C0031-125 [ICM,5]; C07C0031-00 [ICM,5,C\*];  
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 C11D0001-29 [I,A]; C11D0001-72 [I,A]; C11D0001-72.  
 [I,C\*]

AB A branched primary alc. composition and the **sulfates**, alkoxyates, alkoxy **sulfates** and carboxylates thereof exhibit good cold-water detergency and biodegradability. The branched primary alc. has an average number

of branches per chain 0.7-3.0, having at least 8 carbon atoms and containing both Me and Et branches. The alc. is manufactured by skeletally isomerizing a C<sub>7</sub> olefin feed or by dimerizing a C<sub>6</sub>-C<sub>10</sub> olefin, followed by conversion to an alc. by hydroformylation, and ultimately **sulfation**, alkoxylation or both to obtain a detergent surfactant.

Thus, purified C<sub>13</sub>-C<sub>14</sub> linear internal olefin was skeletally isomerized in a 3-zone tube furnace at 250-275° and 114 kPa for 26 h in the presence of a 1.59 mm extruded and calcined H-ferrierite containing 100 ppm Pd metal, then hydroformylated in the presence of a phosphine-modified Co catalyst, and the product distilled. Distillates were stabilized and purified, giving a C<sub>14</sub>-C<sub>15</sub> alc. having average branches/chain 1.6, <2% linear alc., Me branches 38.9, Et branches 12.5, and C<sub>3</sub> branches 32.5%.

The **sulfated** C<sub>17</sub> alc. showed 100% biodegrdn. in 28 days, and multisebum detergency 37 at 10° and 49 at 32°, compared with 86, 16, and 34, resp., for a **sulfated** Neodol C<sub>14</sub>-C<sub>15</sub> alc.

ST branched primary alc prepn surfactant; olefin isomerization hydroformylation alc prepn; biodegradable detergent branched primary alc surfactant

IT Alkenes, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (C<sub>13</sub>-C<sub>14</sub>, skeletal isomerization and hydroformylation of; highly branched primary alc. compns., preparation thereof and biodegradable detergents therefrom)

IT Alkenes, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (C<sub>4</sub>-C<sub>8</sub>, dimerization and hydroformylation of; highly branched primary alc. compns., preparation thereof and biodegradable detergents therefrom)

IT Alkenes, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (C<sub>6</sub>-C<sub>9</sub>, dimerization and hydroformylation of; highly branched primary alc. compns., preparation thereof and biodegradable detergents therefrom)

IT Detergents

(biodegradable; highly branched primary alc. compns., preparation thereof and biodegradable detergents therefrom)

IT **Alcohols, uses**

RL: IMF (Industrial manufacture); TEM (Technical or engineered material)

use); PREP (Preparation); USES (Uses)  
 (branched, C $\geq$ 8 primary, **sulfates**; highly  
 branched primary alc. compns., preparation thereof and biodegradable  
 detergents therefrom)

IT **Alcohols, uses**  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (branched, primary; highly branched primary alc.  
 compns., preparation thereof and biodegradable detergents therefrom)

IT Dimerization catalysts  
 (for olefins; highly branched primary alc. compns., preparation thereof and  
 biodegradable detergents therefrom)

IT Scouring agents  
 Shampoos  
 Surfactants  
 (highly branched primary alc. compns., preparation thereof and biodegradable  
 detergents therefrom)

IT Soaps  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (highly branched primary alc. compns., preparation thereof and biodegradable  
 detergents therefrom)

IT Hydroformylation  
 (of isomerized olefins; highly branched primary alc. compns., preparation  
 thereof and biodegradable detergents therefrom)

IT Isomerization catalysts  
 (palladium-containing ferrierite zeolites for olefins; highly branched  
 primary alc. compns., preparation thereof and biodegradable detergents  
 therefrom)

IT Ferrierite-type zeolites  
 RL: CAT (Catalyst use); USES (Uses)  
 (palladium-containing; highly branched primary alc. compns., preparation  
 thereof  
 and biodegradable detergents therefrom)

IT **Alcohols, uses**  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (primary, C $\geq$ 8- **branched, sulfates**; highly  
 branched primary alc. compns., preparation thereof and biodegradable  
 detergents therefrom)

IT **Alcohols, uses**  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (primary, **branched**; highly branched primary alc.  
 compns., preparation thereof and biodegradable detergents therefrom)

IT **7440-05-3, Palladium, uses**  
 RL: CAT (Catalyst use); USES (Uses)  
 (ferrierite isomerization catalyst containing; highly branched primary alc.  
 compns., preparation thereof and biodegradable detergents therefrom)

IT **563-43-9, Dichloroethylaluminum, uses 1586-92-1, Diethyl**  
**aluminum ethoxide 14324-83-5 70776-98-6, Nickel**  
**2-ethylhexanoate trifluoroacetate**  
 RL: CAT (Catalyst use); USES (Uses)  
 (olefin dimerization catalyst; highly branched primary alc. compns.,  
 preparation thereof and biodegradable detergents therefrom)

IT **629-73-2, Neodene 16 1120-36-1, Neodene 14**  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (skeletal isomerization and hydroformylation of; highly branched  
 primary alc. compns., preparation thereof and biodegradable detergents  
 therefrom)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Imperial Chemical Industries; FR 1151630 A 1958

(2) Monsanto Co; WO 8502175 A 1985 HCAPLUS

IT 7440-05-3, Palladium, uses

RL: CAT (Catalyst use); USES (Uses)

(ferrierite isomerization catalyst containing; highly branched primary alc. compns., preparation thereof and biodegradable detergents therefrom)

RN 7440-05-3 HCAPLUS

CN Palladium (8CI, 9CI) (CA INDEX NAME)

Pd

IT 563-43-9, Dichloroethylaluminum, uses 1586-92-1, Diethyl aluminum ethoxide 14324-83-5 70776-98-6, Nickel

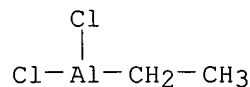
2-ethylhexanoate trifluoroacetate

RL: CAT (Catalyst use); USES (Uses)

(olefin dimerization catalyst; highly branched primary alc. compns., preparation thereof and biodegradable detergents therefrom)

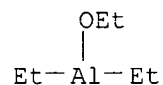
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CN Aluminum, dichloroethyl- (8CI, 9CI) (CA INDEX NAME)

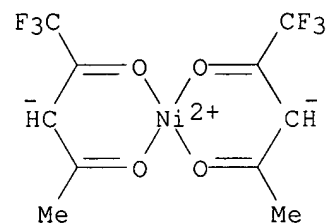


RN 1586-92-1 HCAPLUS

CN Aluminum; ethoxydiethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

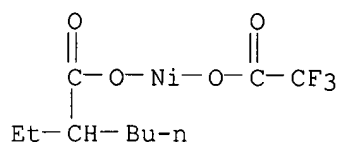


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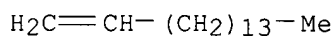
CN Nickel, bis(1,1,1-trifluoro-2,4-pentanedionato- $\kappa\text{O}, \kappa\text{O}'$ )- (9CI)  
(CA INDEX NAME)

RN 70776-98-6 HCAPLUS

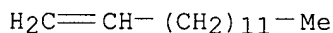
CN Nickel, (2-ethylhexanoato- $\kappa\text{O}$ )(trifluoroacetato- $\kappa\text{O}$ )- (9CI) (CA INDEX NAME)



IT 629-73-2, Neodene 16 1120-36-1, Neodene 14  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (skeletal isomerization and hydroformylation of; highly branched  
 primary alc. compns., preparation thereof and biodegradable detergents  
 therefrom)  
 RN 629-73-2 HCAPLUS  
 CN 1-Hexadecene (8CI, 9CI) (CA INDEX NAME)



RN 1120-36-1 HCAPLUS  
 CN 1-Tetradecene (6CI, 8CI, 9CI) (CA INDEX NAME)



## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Imperial Chemical Indus	1958			FR 1151630 A	
Monsanto Co	1985			WO 8502175 A	HCAPLUS

=> => d 1133 bib abs hitstr retable tot

L133 ANSWER 1 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:282007 HCAPLUS

DN 130:313523

TI Liquid crystal **detergent** compositions having good grease-soil  
 removal properties and pretreatment of lipophilic soil therewith

IN Yianakopoulos, Georges; Blandiaux, Genevieve; Mondin, Myriam

PA Colgate Palmolive Company, USA

SO U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 612,633, abandoned.

CODEN: USXXAM

DT **Patent**

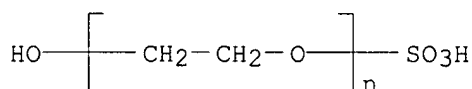
LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5898026	A	19990427	US 1997-879378	19970620 <--
	US 5035826	A	19910730	US 1989-411280	19890922 <--
	US 5523013	A	19960604	US 1994-334107	19941104 <--
PRAI	US 1989-411280	A1	19890922	<--	
	US 1991-726597	B2	19910708	<--	
	US 1993-96501	A2	19930903	<--	
	US 1994-334107	A2	19941104	<--	
	US 1996-612633	B2	19960306	<--	
AB	A liquid crystal <b>detergent</b> composition comprises a water insol. organic				

compound, a nonionic surfactant, wood particles, an ethoxylated alkyl ether sulfate surfactant, a magnesium salt, a glycol ether cosurfactant, and water. The composition has improved interfacial tension for cleaning hard surfaces and good grease-soil removal properties without the need of or requiring only minimal addnl. rinsing or wiping. Thus, a liquid crystal **detergent** composition comprising Dobanol 91-5 12, sodium salt of ethoxylated alkyl ether sulfate 3, tripropylene glycol Bu ether 11.25, d-limonene 3.75, MgSO<sub>4</sub>.7H<sub>2</sub>O 0.98, Picea abies wood particles 4, and water to 100 weight% showed cleaning easiness index 0.34 (10% hard tallow), and 0.43 (10% hard tallow & 5% soft beef tallow) vs. a classical cream cleaner as reference

IT **34503-11-2**, Polyethylene glycol sulfate sodium salt  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; liquid crystal **detergent** compns. having good  
 grease-soil removal properties for lipophilic soil removal)  
 RN 34503-11-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt  
 (9CI) (CA INDEX NAME)



● Na

# RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon	1985			GB 2144763	HCAPLUS
Denis	1989			US 4869842	HCAPLUS
Dolan	1996			US 5523014	HCAPLUS
Durbut	1990			US 4919839	HCAPLUS
Durbut	1991			US 5035826	HCAPLUS
Durbut	1996			US 5523013	HCAPLUS
Goffinet	1983			US 4414128	HCAPLUS
Herbots	1985			US 4561991	HCAPLUS
Kiewert	1996			US 5484548	HCAPLUS

L133 ANSWER 2 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:696835 HCAPLUS

DN 127:347959

TI **Detergent** compositions containing selected mid-chain branched alkyl surfactants

IN Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Foley, Peter Robert; Willman, Kenneth William

PA Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Foley, Peter Robert; Willman, Kenneth William

SO PCT Int. Appl., 113 pp.

CODEN: PIXXD2

DT **Patent**

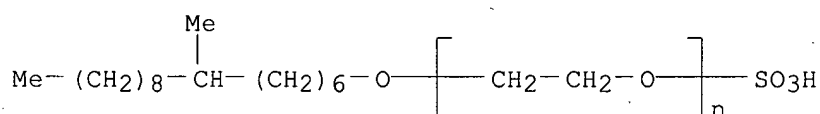
LA English

FAN.CNT 9

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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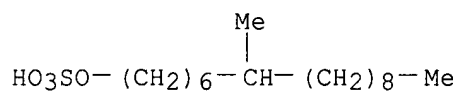


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CA 2252362 C 20020226  
EP 898610 A1 19990303 EP 1997-924503 19970416 <--  
EP 898610 B1 20021009  
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AT 225840 T 20021015 AT 1997-924503 19970416 <--  
ES 2182080 T3 20030301 ES 1997-924503 19970416 <--  
US 6133222 A 20001017 US 1999-433853 19991104 <--  
PRAI US 1996-15521P P 19960416 <--  
US 1996-15523P P 19960416 <--  
US 1996-31844P P 19961126 <--  
WO 1997-US6474 W 19970416  
US 1998-170185 A3 19981013 <--  
AB Title compns. comprise a mid-chain branched alkyl surfactant AbCH<sub>2</sub>B [Ab is a hydrophobic C<sub>9</sub>-22 alkyl having ≥1 C<sub>1</sub>-3 alkyl branches, at least one of which is attached to the 2 C or the ω-2 C (the 1 C is attached to the CH<sub>2</sub> moiety); B is a hydrophilic sulfate, polyoxyalkylene, or alkoxylated sulfate group]; a bleaching agent, builder, or enzyme; and typical **detergent** components. The **detergents** are especially useful in cold water and/or hard water conditions.  
IT **198080-23-8P**  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(preparation of; in preparation of mid-chain branched alkyl surfactants for **detergent** compns.)  
RN 198080-23-8 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-[(7-methylhexadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



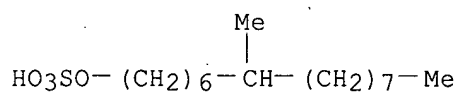
● Na

IT **198079-63-9P 198079-65-1P 198079-66-2P**  
**198080-24-9P 198080-25-0P**  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(preparation of; mid-chain branched alkyl surfactants for **detergent** compns.)  
RN 198079-63-9 HCAPLUS  
CN 1-Hexadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



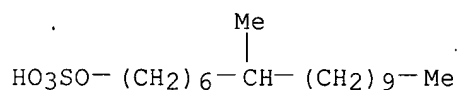
● Na

RN 198079-65-1 HCAPLUS  
 CN 1-Pentadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



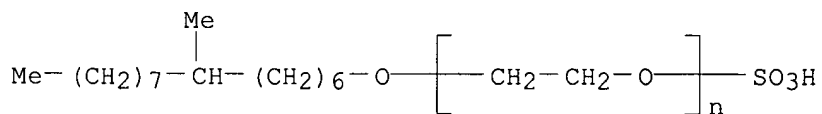
● Na

RN 198079-66-2 HCAPLUS  
 CN 1-Heptadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



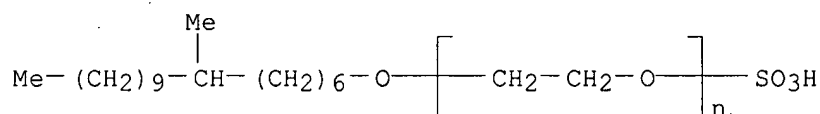
● Na

RN 198080-24-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylpentadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198080-25-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylheptadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

L133 ANSWER 3 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:696834 HCAPLUS

DN 127:347958

TI Liquid cleaning compositions containing selected mid-chain branched alkyl surfactants

IN Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Foley, Peter Robert

PA Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Foley, Peter Robert

SO PCT Int. Appl., 102 pp.

CODEN: PIXXD2

DT **Patent**

LA English

FAN.CNT 9

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9739089	A1	19971023	WO 1997-US6473	19970416 <--
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	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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	EP 898607	A1	19990303	EP 1997-921248	19970416 <--
	EP 898607	B1	20020731		
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	US 6087309	A	20000711	US 1999-434181	19991104 <--
PRAI	US 1996-15521P	P	19960416	<--	
	US 1996-15523P	P	19960416	<--	
	US 1996-31762P	P	19961126	<--	
	WO 1997-US6473	W	19970416		
	US 1998-170426	A3	19981013	<--	

OS MARPAT 127:347958

AB Liquid cleaning compns., shampoos, and dishwashing **detergents** comprise a mid-chain branched alkyl surfactant AbCH<sub>2</sub>B [Ab is a hydrophobic C<sub>9</sub>-22 alkyl having ≥1 C<sub>1</sub>-3 alkyl branches, at least one of which is attached to the 2 C or the ω-2 C (the 1 C is attached to the CH<sub>2</sub> moiety); B is a hydrophilic sulfate, polyoxyalkylene, or alkoxyated sulfate group]; an anionic, cationic, nonionic, amphoteric, or zwitterionic co-surfactant; solvent; and typical ingredients for the specified use.

IT 198079-63-9P 198079-65-1P 198079-66-2P

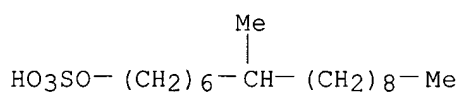
198080-23-8P 198080-24-9P 198080-25-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of; mid-chain branched alkyl surfactants for liquid cleaning compns.)

RN 198079-63-9 HCAPLUS

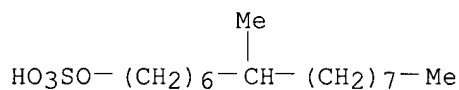
CN 1-Hexadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198079-65-1 HCAPLUS

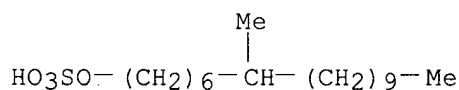
CN 1-Pentadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198079-66-2 HCAPLUS

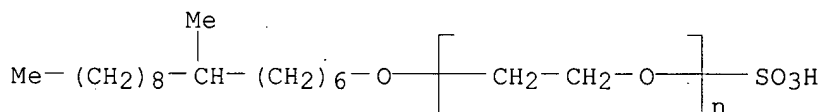
CN 1-Heptadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198080-23-8 HCAPLUS

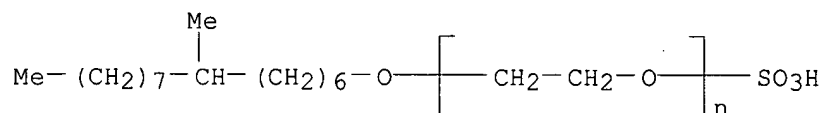
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylhexadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198080-24-9 HCAPLUS

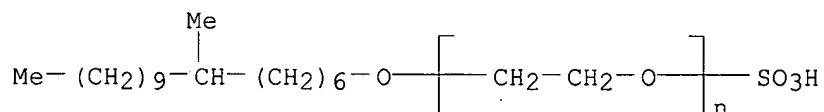
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylpentadecyl)oxy]-  
 , sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198080-25-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylheptadecyl)oxy]-  
 , sodium salt (9CI) (CA INDEX NAME)



● Na

L133 ANSWER 4 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN.

AN 1997:696833 HCAPLUS

DN 127:347941

TI Mid-chain branched primary alkyl sulfate mixtures as surfactants and their  
 use in **detergents**

IN Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle;  
 Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R.;  
 Dupont, Jeffrey Scott

PA Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas  
 Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St.  
 Laurent, James Charles T. R.; Dupont, Jeffrey Scott

SO PCT Int. Appl., 113 pp.

CODEN: PIXXD2

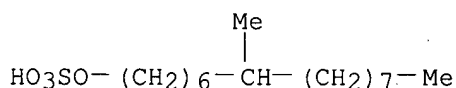
DT **Patent**

LA English

FAN.CNT 9

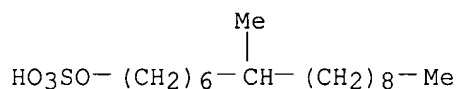
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	LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,				
	RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,				
	GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,				
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EP 898609 A1 19990303 EP 1997-923422 19970416 <--  
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 AT 225839 T 20021015 AT 1997-923422 19970416 <--  
 ES 2185016 T3 20030416 ES 1997-923422 19970416 <--  
 CN 1491940 A 20040428 CN 2001-2001140920 19970416 <--  
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 US 1996-15523P P 19960416 <--  
 US 1996-31845P P 19961126 <--  
 WO 1997-US6472 W 19970416  
 OS MARPAT 127:347941  
 AB Title surfactants CH<sub>3</sub>CH<sub>2</sub>(CH<sub>2</sub>)<sub>w</sub>CRH(CH<sub>2</sub>)<sub>x</sub>CR1H(CH<sub>2</sub>)<sub>y</sub>CR2H(CH<sub>2</sub>)<sub>z</sub>OSO<sub>3</sub>M, [total C atoms = 14-20 (including R, R1, and R2); R-R2 = H, C1-3 alkyl; when z = 1, R or R1 ≠ H; M is ≥1 cation; w, x, y = 0-13; z = ≥1; w + x + y + z = 8-14]; CH<sub>3</sub>CH<sub>2</sub>(CH<sub>2</sub>)<sub>x</sub>CR1H(CH<sub>2</sub>)<sub>y</sub>CR2H(CH<sub>2</sub>)<sub>z</sub>OSO<sub>3</sub>M [R1, R2 = H, C1-3 alkyl (both cannot be H); M = water-soluble cation; x, y, = 0-12; z ≥2; x + y + z = 11-14]; CH<sub>3</sub>(CH<sub>2</sub>)<sub>a</sub>CHMe(CH<sub>2</sub>)<sub>b</sub>CH<sub>2</sub>OSO<sub>3</sub>M [M = Na, K, (substituted) ammonium; a = 2-11; b = 1-10; a + b = 12 or 13]; etc.; are useful in laundry and cleaning compns., especially granular and liquid **detergent** compns. used at low water temperature  
 IT 198079-65-1P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of; mid-chain branched primary alkyl sulfate mixts. as surfactants and their use in **detergents**)  
 RN 198079-65-1 HCAPLUS  
 CN 1-Pentadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

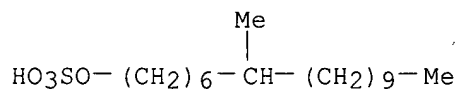
IT 198079-63-9P 198079-66-2P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (preparation of; mid-chain branched primary alkyl sulfate mixts. as surfactants and their use in **detergents**)  
 RN 198079-63-9 HCAPLUS  
 CN 1-Hexadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198079-66-2 HCAPLUS

CN 1-Heptadecanol, 7-methyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

L133 ANSWER 5 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:696832 HCAPLUS

DN 127:347940

TI Mid-chain branched primary alkyl alkoxyated sulfate surfactants, mixtures thereof, and **detergent** compositions containing them

IN Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R.

PA Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R.

SO PCT Int. Appl., 114 pp.

CODEN: PIXXD2

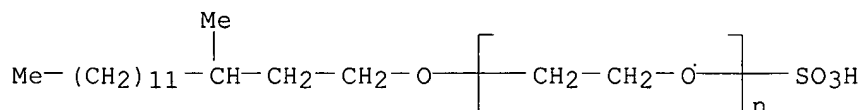
DT **Patent**

LA English

FAN.CNT 9

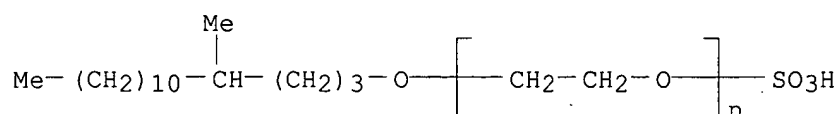
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	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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ES 2165045 T3 20020301 ES 1997-918719 19970416 <--  
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 US 6008181 A 19991228 US 1998-170426 19981013 <--  
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 PRAI US 1996-15521P P 19960416 <--  
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 US 1996-32035P P 19961126 <--  
 WO 1997-US6471 W 19970416  
 AB Title surfactants CH<sub>3</sub>CH<sub>2</sub>(CH<sub>2</sub>)<sub>w</sub>CRH(CH<sub>2</sub>)<sub>x</sub>CR1H(CH<sub>2</sub>)<sub>y</sub>CR2H(CH<sub>2</sub>)<sub>z</sub>(EO/PO)<sub>m</sub>OSO<sub>3</sub>M,  
 [total C atoms = 14-20 (including R, R1, and R2 but excluding the EO/PO  
 moiety); R-R2 = H, C1-3 alkyl; when z = 1 R or R1 ≠ H; M is  
 ≥1 cation; w, x, y = 0-13; z = ≥1; w + x + y + z = 8-14; m  
 ≥0.01]; CH<sub>3</sub>CH<sub>2</sub>(CH<sub>2</sub>)<sub>x</sub>CR1H(CH<sub>2</sub>)<sub>y</sub>CR2H(CH<sub>2</sub>)<sub>z</sub>(EO/PO)<sub>m</sub>OSO<sub>3</sub>M [R1, R2 = H,  
 C1-3 alkyl (both cannot be H); M = water-soluble cation; x, y, = 0-12; z  
 ≥2; x + y + z = 11-14; m ≥0.01];  
 CH<sub>3</sub>(CH<sub>2</sub>)<sub>a</sub>CHMe(CH<sub>2</sub>)<sub>b</sub>CH<sub>2</sub>(EO/PO)<sub>m</sub>OSO<sub>3</sub>M [M = Na, K, Mg, (substituted)  
 ammonium; a = 2-11; b = 1-10; a + b = 12 or 13; m ≥0.01]; etc.; are  
 useful in laundry and cleaning compns., especially granular and liquid  
**detergent** compns. used at low water temperature  
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 198082-06-3D, salts 198082-07-4D, salts  
 198082-08-5D, salts 198082-09-6D, salts  
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 RL: TEM (Technical or engineered material use); USES (Uses)  
 (mid-chain branched primary alkyl alkoxyated sulfate surfactants for  
 cleaning compns.)  
 RN 198082-04-1 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-[(3-methylpentadecyl)oxy]-  
 (9CI) (CA INDEX NAME)

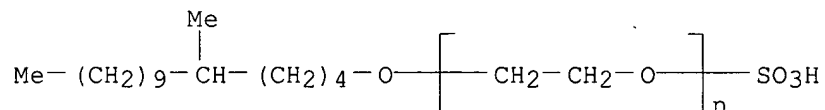


RN 198082-05-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-[(4-methylpentadecyl)oxy]-  
 (9CI) (CA INDEX NAME)

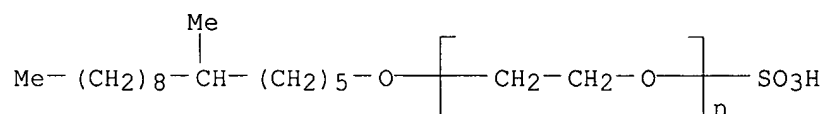




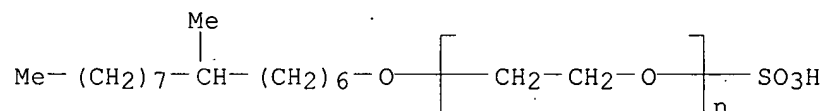
RN 198082-06-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(5-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

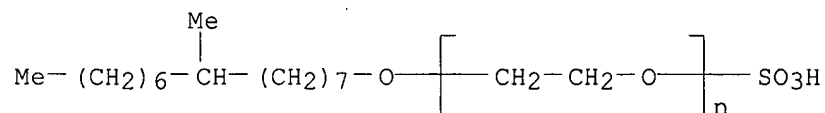
RN 198082-07-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(6-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-08-5 HCAPLUS

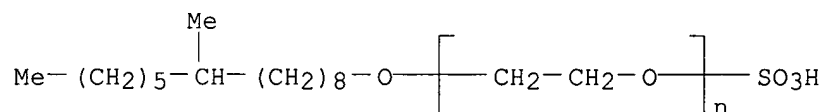
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-09-6 HCAPLUS

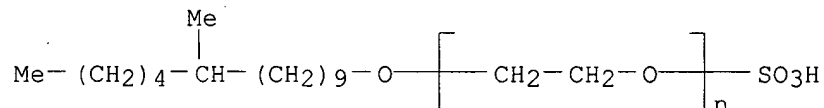
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(8-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-10-9 HCAPLUS

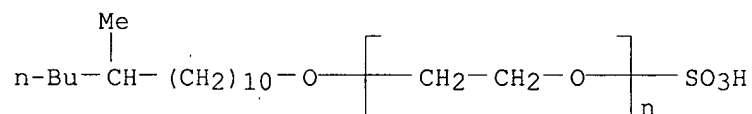
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(9-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)



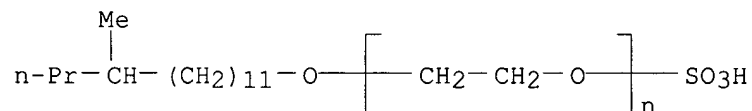
RN 198082-11-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(10-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

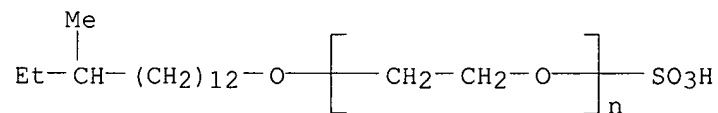
RN 198082-12-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(11-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-13-2 HCAPLUS

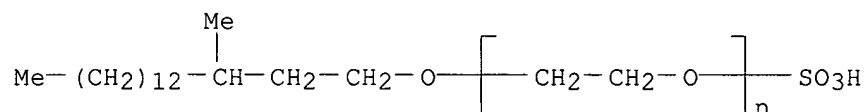
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(12-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-14-3 HCAPLUS

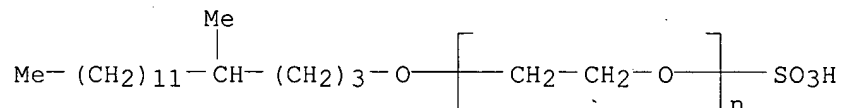
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(13-methylpentadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-15-4 HCAPLUS

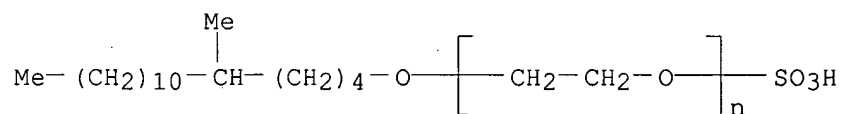
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(3-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)



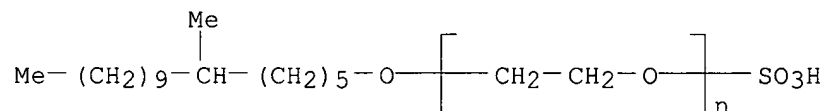
RN 198082-16-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(4-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

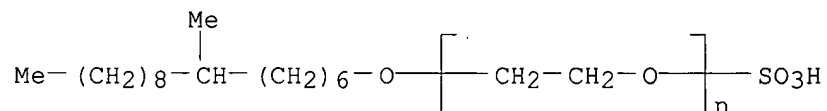
RN 198082-17-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(5-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-18-7 HCAPLUS

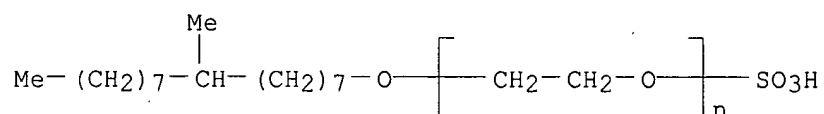
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(6-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-19-8 HCAPLUS

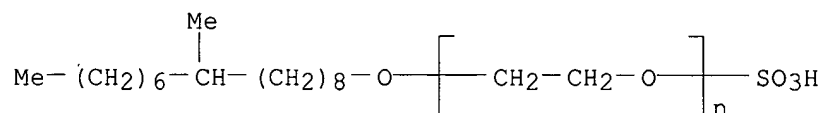
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-20-1 HCAPLUS

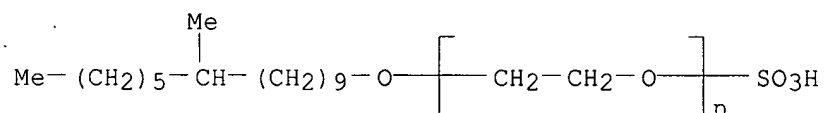
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(8-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)



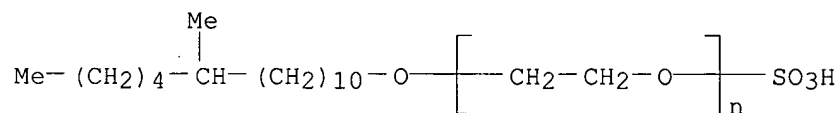
RN 198082-21-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(9-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

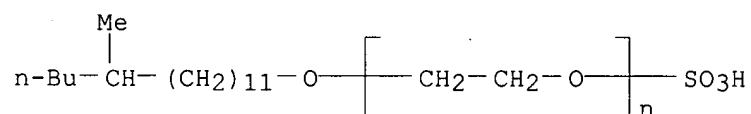
RN 198082-22-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(10-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-23-4 HCAPLUS

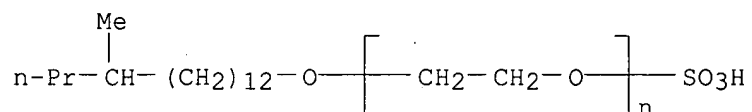
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(11-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-24-5 HCAPLUS

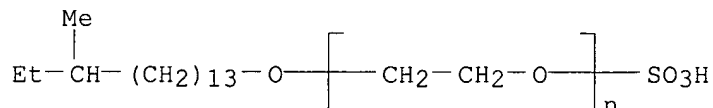
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(12-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)

RN 198082-25-6 HCAPLUS

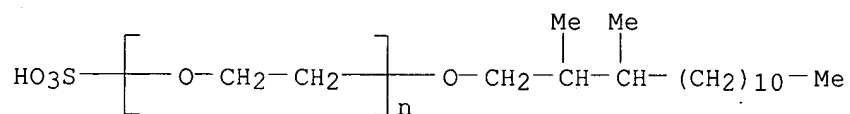
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(13-methylhexadecyl)oxy]-(9CI) (CA INDEX NAME)



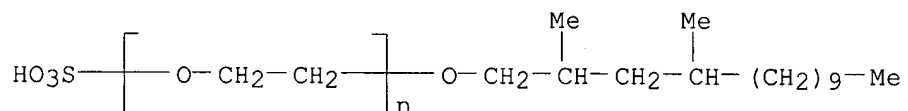
RN 198082-26-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(14-methylhexadecyl)oxy]-  
(9CI) (CA INDEX NAME)

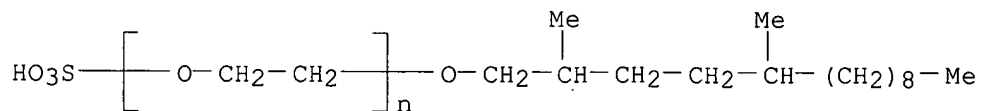
RN 198082-27-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,3-  
dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-28-9 HCAPLUS

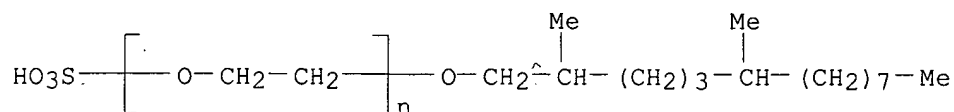
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,4-  
dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-29-0 HCAPLUS

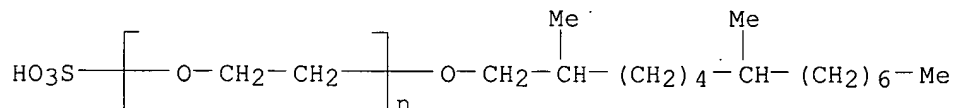
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,5-  
dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-30-3 HCAPLUS

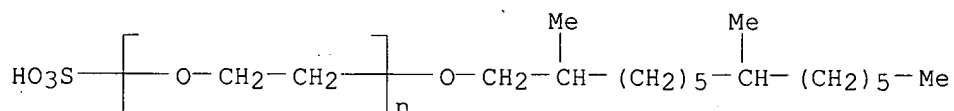
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,6-  
dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)



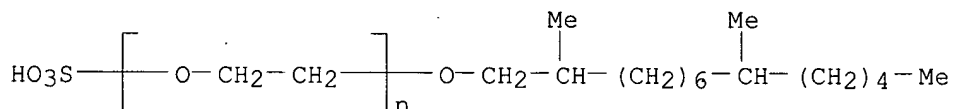
RN 198082-31-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,7-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

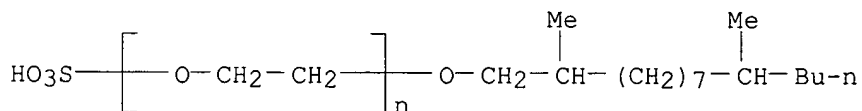
RN 198082-32-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,8-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-33-6 HCAPLUS

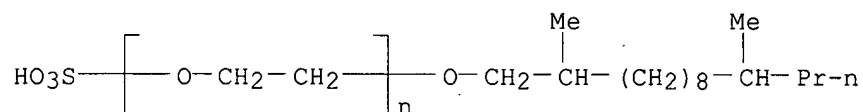
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,9-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-34-7 HCAPLUS

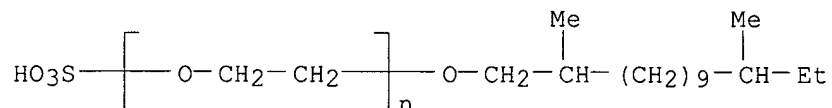
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,10-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-35-8 HCAPLUS

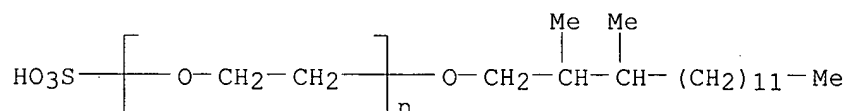
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,11-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)



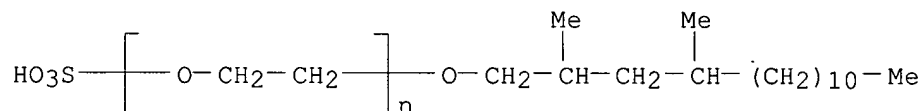
RN 198082-36-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,12-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

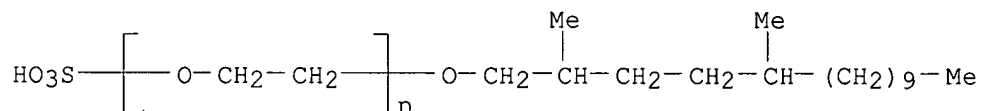
RN 198082-37-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,3-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-38-1 HCAPLUS

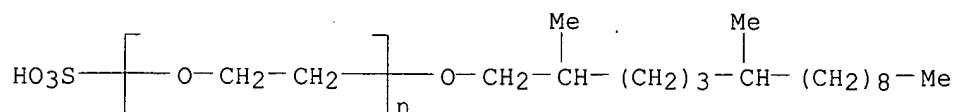
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,4-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-39-2 HCAPLUS

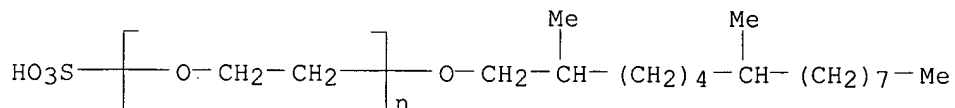
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,5-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-40-5 HCAPLUS

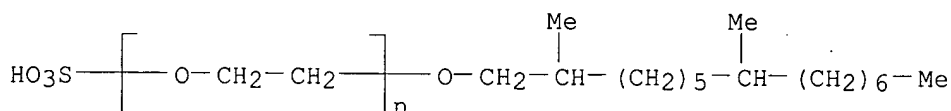
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,6-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



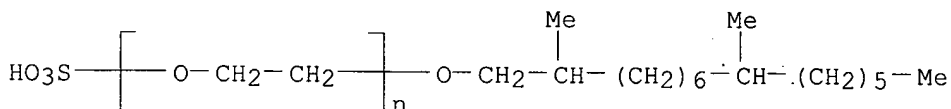
RN 198082-41-6 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,7-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



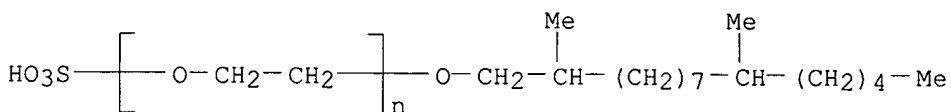
RN 198082-42-7 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,8-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



RN 198082-43-8 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,9-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

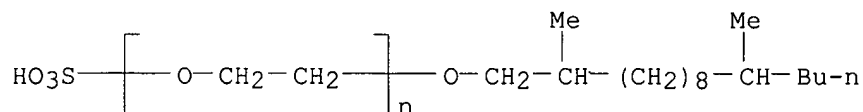


RN 198082-44-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,10-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

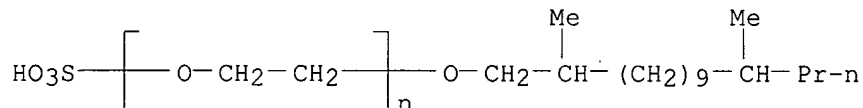


RN 198082-45-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,11-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

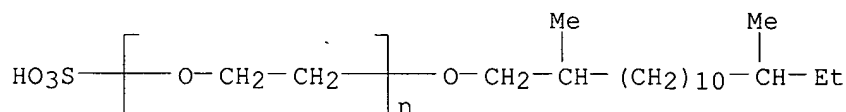




RN 198082-46-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,12-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

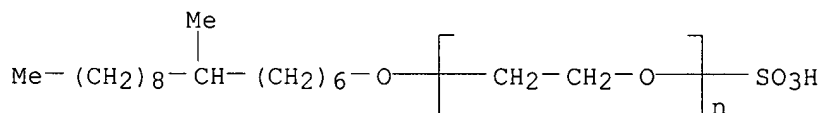
RN 198082-47-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,13-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

IT 198080-23-8P 198080-24-9P 198080-25-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (preparation of; mid-chain branched primary alkyl alkoxyated sulfate surfactants for cleaning compns.)

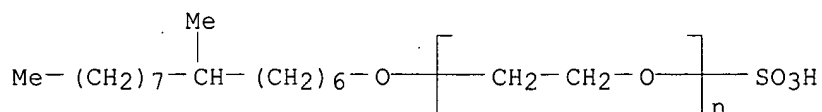
RN 198080-23-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylhexadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)

● Na

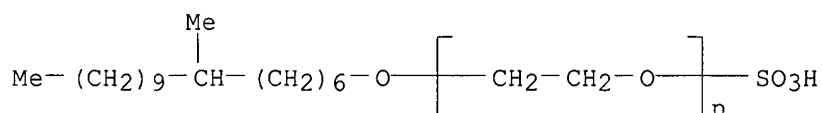
RN 198080-24-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylpentadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198080-25-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylheptadecyl)oxy]-  
, sodium salt (9CI) (CA INDEX NAME)

● Na

L133 ANSWER 6 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:696739 HCAPLUS

DN 127:347939

TI Manufacturing sulfates of longer chain branched alkanols and/or  
alkoxylated alkanolsIN Connor, Daniel Stedman; Cripe, Thomas Anthony; Jacobs, Roger Craig;  
Jensen, Michael ChrisPA Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas  
Anthony; Jacobs, Roger Craig; Jensen, Michael Chris

SO PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DT **Patent**

LA English

FAN.CNT 9

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9738972	A1	19971023	WO 1997-US6338	19970416 <--
	W: BR, CA, CN, JP, MX, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2252437	A1	19971023	CA 1997-2252437	19970416 <--
	CA 2252437	C	20031021		
	EP 906274	A1	19990407	EP 1997-920414	19970416 <--
	EP 906274	B1	20010613		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	JP 11507987	T	19990713	JP 1997-537348	19970416 <--
	JP 3043434	B2	20000522		
	BR 9708691	A	19990803	BR 1997-8691	19970416 <--
	ES 2157572	T3	20010816	ES 1997-920414	19970416 <--
	CN 1312126	A	20010912	CN 2001-103445	20010205 <--
	GR 3036051	T3	20010928	GR 2001-400893	20010614 <--
PRAI	US 1996-15521P	P	19960416	<--	
	US 1996-15523P	P	19960416	<--	
	US 1996-31761P	P	19961126	<--	

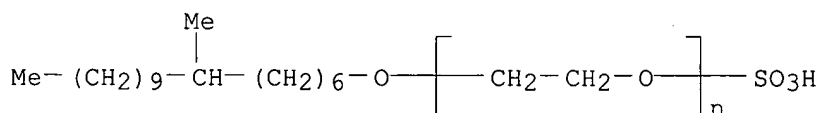
WO 1997-US6338 W 19970416

AB Sulfation of fatty alcs. for producing longer chain length alkyl sulfate and/or alkyl alkoxyated sulfate surfactant is carried out in the presence of a significant amount of mid-chain branched alc. and/or polyoxyalkylene alc. to significantly reduce the reaction temperature, improving product quality and saving energy. The Wittig adduct of triphenylphosphine and 6-bromo-1-hexanol was treated with 2-undecanone and the resulting Me-branched alc. product was hydrogenated and alkoxyated to give a branched surfactant precursor.

IT **198141-29-6P**  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (manufacturing sulfates of longer chain branched alkanols and/or alkoxyated alkanols)

RN 198141-29-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylheptadecyl)oxy]-(9CI) (CA INDEX NAME)



L133 ANSWER 7 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:568259 HCAPLUS

DN 127:207329

TI Reduced residue hard surface cleaner comprising hydrotrope

IN Ryklin, Irma; Malik, Arshad

PA Stepan Company, USA; Ryklin, Irma; Malik, Arshad

SO PCT Int. Appl., 34 pp.  
 CODEN: PIXXD2

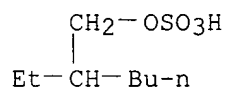
DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9730140	A1	19970821	WO 1997-US2107	19970213 <--
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2218256	A1	19970821	CA 1997-2218256	19970213 <--
	CA 2218256	C	20060530		
	AU 9719557	A	19970902	AU 1997-19557	19970213 <--
	AU 728470	B2	20010111		
	EP 842251	A1	19980520	EP 1997-907590	19970213 <--
	EP 842251	B1	20051026		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 10508901	T	19980902	JP 1997-529427	19970213 <--
	JP 3005050	B2	20000131		
	NZ 329010	A	20000428	NZ 1997-329010	19970213 <--
	AT 307868	T	20051115	AT 1997-907590	19970213 <--

BR 9702063 A 19980609 BR 1997-2063 19971014 <--  
 US 6281178 B1 20010828 US 1999-410724 19991001 <--  
 PRAI US 1996-11661P P 19960214 <--  
 WO 1997-US2107 W 19970213  
 AB Hard surface cleaning compns. comprise **detergent** surfactant and **detergent** builder and a hydrotrope to prevent filming and/or streaking after a surface is cleaned.  
 IT **126-92-1**, Sodium Octyl sulfate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (hydrotrope for streaking-resistant hard surface cleaner containing surfactants and builders)  
 RN 126-92-1 HCAPLUS  
 CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME).



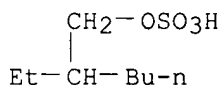
● Na

L133 ANSWER 8 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1997:503558 HCAPLUS  
 DN 127:137368  
 TI Surfactant blend of organosilicone and surfactants  
 IN Gao, Tao; Dahanayake, Manilal S.; Tracy, David James  
 PA Rhone-Poulenc Specialty Chemicals Co., USA  
 SO PCT Int. Appl., 34 pp.  
 CODEN: PIXXD2  
 DT **Patent**  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9723281	A1	19970703	WO 1996-IB1408	19961210 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9677058	A	19970717	AU 1996-77058	19961210 <--
	AU 709352	B2	19990826		
	EP 868211	A1	19981007	EP 1996-940063	19961210 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	BR 9612271	A	20010102	BR 1996-12271	19961210 <--
PRAI	US 1995-576749	A	19951221 <--		
	WO 1996-IB1408	W	19961210		
AB	Surfactant blends with improved superspreading comprise 60-95% of organosilicone compds. such as (Me <sub>3</sub> SiO) <sub>2</sub> Si(Me) CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> (OCH <sub>2</sub> CH <sub>2</sub> ) <sub>7</sub> .5OMe mixed with 5-30% non-silicone surfactant(s) containing hydrophobic groups comprising C <sub>4</sub> -12 aliphatic groups. This surfactant blend provides clear aqueous solns. with improved spreading efficacy as well as improved surface tension. The surfactant blend is especially useful in agricultural applications				

as an adjuvant for the delivery of agricultural active ingredients, such as fertilizers, micronutrients, biologicals, pesticides, herbicides, fungicides and growth regulators to treatment sites. A blend contained Silwet L77 and sodium 2-ethylhexyl sulfate.

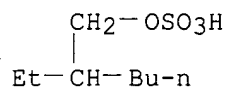
IT **126-92-1**, Sodium 2-ethylhexyl sulfate  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (Rhodapon BOS; surfactant blend of organosilicone and surfactants)  
 RN 126-92-1 HCAPLUS  
 CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 9 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1997:400479 HCAPLUS  
 DN 127:78238  
 TI Methods and compositions for isolating nucleic acids  
 IN Wiggins, James C.  
 PA USA  
 SO U.S., 15 pp.  
 CODEN: USXXAM  
 DT **Patent**  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5637687	A	19970610	US 1993-115184	19930831 <--
PRAI	US 1993-115184		19930831	<--	
AB	Compns. and methods are disclosed for isolating nucleic acids from biol. tissues and cells (including tumor cells) and for tissue/cell solubilization for other mol. biol. uses, wherein the compns. comprise, in part, novel combinations of chaotropic agents and aromatic alcs. which act synergistically to effect better tissue/protein solubilization. The inventive compns. further include aprotic solvents for deactivation of RNases and denaturation of proteins, as well as <b>detergents</b> for enhancing cell lysis and nucleoprotein dissociation. The inventive methods also comprise the use of a centrifuge, a solid-support matrix, and a microporous membrane for final isolation of the precipitated nucleic acids, resulting in high yield and purity of the precipitated nucleic acid.				
IT	<b>126-92-1</b> , Sodium 2-ethylhexyl sulfate RL: NUU (Other use, unclassified); USES (Uses) (methods and compns. for nucleic acids isolation)				
RN	126-92-1 HCAPLUS				
CN	Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)				



● Na

L133 ANSWER 10 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:293861 HCAPLUS

DN 126:265458

TI Fully diluted hard surface cleaners containing high concentrations of certain anions

IN Strandburg, Gary M.; Gardner, John M.; Haigh, Daniel H.; Wagers, Kevin J.; O'Driscoll, Erin D.

PA Dowbrands Inc., USA

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9709412	A1	19970313	WO 1996-US14208	19960905 <--
	W: AU, BR, CA, CN, CZ, FI, HU, IS, JP, MX, NO, NZ, PL, SG				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2237150	A1	19970313	CA 1996-2237150	19960905 <--
	AU 9673587	A	19970327	AU 1996-73587	19960905 <--
	AU 727789	B2	20001221		
	EP 861316	A1	19980902	EP 1996-935792	19960905 <--
	EP 861316	B1	20020508		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	CN 1201483	A	19981209	CN 1996-198118	19960905 <--
	CN 1201487	A	19981209	CN 1996-198119	19960905 <--
	US 6200941	B1	20010313	US 1996-708473	19960905 <--
	AT 217343	T	20020515	AT 1996-935792	19960905 <--
	ES 2173323	T3	20021016	ES 1996-935792	19960905 <--
PRAI	US 1995-3321P	P	19950906 <--		
	WO 1996-US14208	W	19960905 <--		

AB The title cleaners contain  $\geq 0.45$  equiv/kg of a dissolved anion which reacts with Ca ion to form an insol. salt. The cleaners also contain a particular amine oxide, or a different surfactant in conjunction with a solvent, and a bleach effective on soap scum and mold and mildew. An alkaline cleaner contained decyldimethylamine oxide 1.5, KF 5.0, and water 93.5 parts.

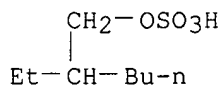
IT 126-92-1, Sodium 2-ethylhexylsulfate

RL: TEM (Technical or engineered material use); USES (Uses)

(surfactant; fully diluted hard surface cleaners containing small amts. of certain surfactants and anion-releasing compound)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 11 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:240626 HCAPLUS

DN 126:222603

TI Method for enhancing chemiluminescence

IN Kohne, David E.

PA Kohne, David E., USA

SO PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9705209	A1	19970213	WO 1996-US12300	19960726 <--
	W: AU, BR, CA, CN, FI, JP, KR, NO, NZ				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9666003	A	19970226	AU 1996-66003	19960726 <--
PRAI	US 1995-1641P	P	19950728	<--	
	WO 1996-US12300	W	19960726	<--	

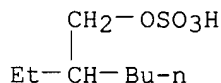
AB The invention relates to a method for obtaining increased enhancement of luminescence from art known luminescent systems by the incorporation into the art known luminescent system of one or more **detergents** and one or more enhancer. Such enhanced luminescence can occur in solution or on a solid surface. The method can be practiced using anionic, cationic, zwitterionic, and non-ionic surface active or **detergent** compds. The method has broad application in any area where a signal generation system is required. Such areas include medical, veterinary, agricultural, and industrial diagnostics and quality control. This includes any assay type designed to detect and/or quantitate the presence of any analyte, including industrial and pharmaceutical compds. as well as biol. compds. and organisms of all types such as proteins, carbohydrates, lipids, nucleic acids, bacteria and viruses. Examples of such tests include those utilizing nucleic acid probes, as well as immuno- and receptor-assays.

IT **126-92-1**, Sodium octyl sulfate

RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(method for enhancing chemiluminescence)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 12 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:54042 HCAPLUS

DN 126:76540

TI Personal cleansing compositions containing water-soluble gel-forming nonionic surfactants

IN Elliott, Russell Phillip; Phipps, Nicola Jacqueline

PA Procter and Gamble Company, USA; Elliott, Russell Phillip; Phipps, Nicola Jacqueline

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9637592	A1	19961128	WO 1996-US6576	19960509 <--
	W: BR, CA, CN, JP, MX, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2221755	A1	19961128	CA 1996-2221755	19960509 <--
	EP 828810	A1	19980318	EP 1996-914602	19960509 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	CN 1190988	A	19980819	CN 1996-195627	19960509 <--
	CN 1080558	B	20020313		
	BR 9609202	A	19990511	BR 1996-9202	19960509 <--
	JP 11505837	T	19990525	JP 1996-535703	19960509 <--
	EG 20993	A	20000830	EG 1996-451	19960526 <--
	US 6004915	A	19991221	US 1997-973054	19971126 <--
	US 6277798	B1	20010821	US 1999-398661	19990917 <--
PRAI	GB 1995-10833	A	19950527	<--	
	WO 1996-US6576	W	19960509	<--	
	US 1997-973054	A	19971126	<--	

OS MARPAT 126:76540

AB A personal cleansing composition comprises: (a) 1-25 weight% of water-soluble gel-forming nonionic surfactants which are polyhydroxy fatty acid amides; (b) 0.1-3 weight% of C4-10 alkyl sulfate fluidizing agents; and (c) optionally, 1-30 weight% of a dispersed oil phase. The cleansing products demonstrate excellent low temperature fluidity characteristics, excellent mildness, in-use and after-use conditioning benefits, lathering and rinsability. A shower gel formulation contained C11-17 fatty acid amide with N-methylglucamine 8, sodium laureth sulfate 3, cocoamidopropyldimethylbetaine 2, mineral oil 10, sodium C8 alkyl sulfate 2 weight%, sodium citrate, perfume, preservative, and water.

IT 126-92-1, Sodium octyl sulfate

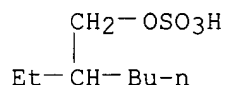
RL: TEM (Technical or engineered material use); USES (Uses)

(personal cleansing compns. containing water-soluble gel-forming nonionic surfactants)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)





● Na

L133 ANSWER 13 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:759113 HCAPLUS

DN 126:20432

TI Glass cleaner compositions having linear alkyl sulfate surfactants

IN Masters, Ronald Anthony; Hensley, Charles Albert; Mitchell, Lori Boden; Maile, Michael Stephen; Policicchio, Nicola John; Severson, Todd Christian

PA The Procter and Gamble Company, USA

SO PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DT Patent

LA English

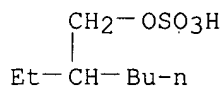
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9634933	A1	19961107	WO 1996-US5561	19960423 <--
	W: AU, BR, CA, MX				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2220131	A1	19961107	CA 1996-2220131	19960423 <--
	CA 2220131	C	20010327		
	AU 9655642	A	19961121	AU 1996-55642	19960423 <--
	EP 823937	A1	19980218	EP 1996-913006	19960423 <--
	EP 823937	B1	19991013		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	BR 9608216	A	19990525	BR 1996-8216	19960423 <--
	AT 185591	T	19991015	AT 1996-913006	19960423 <--
	ES 2136988	T3	19991201	ES 1996-913006	19960423 <--
	GR 3032284	T3	20000427	GR 1999-403373	19991229 <--
PRAI	US 1995-436063	A	19950505	<--	
	WO 1996-US5561	W	19960423	<--	

OS MARPAT 126:20432

AB An aqueous, liquid hard surface **detergent** composition having excellent surface lubricity and filming/streaking characteristics comprises a linear alkyl sulfate [LAS] surfactants, and may contain a co-surfactant, alkali metal carbonates, and a glass hydrophilicity enhancer. The LAS mixture comprises less than about 1% of a C8-C18 linear alkyl sulfate surfactant wherein more than about 30 % is C14 chain length, preferably Na tetradecyl sulfate. The co-surfactant is selected from amphi-carboxylates, zwitterionics, anionic surfactants, and their mixts. The salt content is up to 0.5%, preferably 0.001 to 0.1% alkali metal carbonates or bicarbonates, Na<sub>2</sub>CO<sub>3</sub>, K<sub>2</sub>CO<sub>3</sub>, NaHCO<sub>3</sub>, KHCO<sub>3</sub>, their hydrates or mixts. The hydrophilicity enhancer is a polycarboxylate polymer. The glass cleaner composition contains 0.5-30% butoxypropanol, and the balance is a mixture of ethanol and water and is essentially free of unreacted fatty alc. and alkanolamine compds. The cleaner composition is used by spraying onto a glass surface and wiping to near dryness. Thus, a composition comprising butoxypropanol, ethanol, Versaflex 7000, Na octyl sulfate, Na dodecyl sulfate, Na tetradecyl sulfate, Na hexadecyl sulfate, and Na octadecyl sulfate provided low static friction height [smoothness] and improved surface lubricity while wiping to dryness.

IT 126-92-1, Sodium octyl sulfate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (glass cleaner compns. with linear alkyl sulfate surfactants with good  
 lubricity and streaking characteristics)  
 RN 126-92-1 HCAPLUS  
 CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX  
 NAME)



● Na

L133 ANSWER 14 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1996:716108 HCAPLUS  
 DN 125:332370  
 TI **Detergent** compositions containing amylase and nonionic  
 polysaccharide ethers  
 IN Bailllely, Gerard Marcel; Hall, Robin Gibson; Guedira, Nour-Eddine  
 PA Procter & Gamble Company, USA  
 SO Brit. UK Pat. Appl., 39 pp.  
 CODEN: BAXXDU

DT **Patent**  
 LA English

FAN.CNT 1

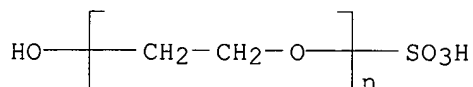
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2297978	A	19960821	GB 1995-2914	19950215 <--
	CA 2211328	A1	19960822	CA 1996-2211328	19960206 <--
	CA 2211328	C	20010724		
	WO 9625478	A1	19960822	WO 1996-US1646	19960206 <--
	W: BR, CA, CN, CZ, HU, JP, MX, US, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 809687	A1	19971203	EP 1996-905397	19960206 <--
	EP 809687	B1	20040121		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
	CN 1174571	A	19980225	CN 1996-191961	19960206 <--
	CN 1086733	B	20020626		
	BR 9607615	A	19980609	BR 1996-7615	19960206 <--
	JP 11500163	T	19990106	JP 1996-525004	19960206 <--
	AT 258220	T	20040215	AT 1996-905397	19960206 <--
	ES 2215189	T3	20041001	ES 1996-905397	19960206 <--
	US 5851235	A	19981222	US 1997-875012	19970716 <--
PRAI	GB 1995-2914	A	19950215	<--	
	WO 1996-US1646	W	19960206	<--	

AB A **detergent** composition for removing stains from a fabric comprises  
 ≥1% of a surfactant, a nonionic polysaccharide ether having a mol.  
 weight >10000, and an amylase enzyme selected from bacterial amylase, fungal  
 amylase or mixts. thereof. The amylase enzyme is in an amount such that the  
**detergent** composition has an activity of ≥0.001 KNU (Kilo Novo  
 Units) per g or ≥0.01 FAU (Fungal Alpha Amylase Units) per g. A  
 suitable polysaccharide ether is Me cellulose.  
 IT 34503-11-2D, Polyethylene glycol sodium sulfate, C12-15 alkyl  
 ethers

RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; **detergent** compns. containing amylase and nonionic  
 polysaccharide ethers)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt  
 (9CI) (CA INDEX NAME)



● Na

L133 ANSWER 15 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:637427 HCAPLUS

DN 125:303839

TI Surfactant blend of a polyoxyalkylene-siloxane and an organic compound  
 having a short chain hydrophobic moiety

IN Policello, George A.; Murphy, Dennis S.

PA Osi Specialties, Inc., USA

SO U.S., 12 pp., Cont. of U.S. Ser. No. 5,749, abandoned.

CODEN: USXXAM

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5558806	A	19960924	US 1995-403538	19950314 <--
PRAI	US 1992-917846	B2	19920723	<--	
	US 1993-5749	B1	19930119	<--	

AB A surfactant blend comprises (a) a polyoxyalkylene-siloxane and (b) an  
 organic compound having a hydrophobic moiety containing less than 11 carbon  
 atoms

in the main chain or backbone which does not interfere with the spreading  
 ability of component (a). The compns. are useful as adjuvants in  
 pesticide sprays or crop oil concs. A composition contained  
 $\text{Me}_3\text{SiO}(\text{SiMeRO})\text{SiMe}_3$  [R =  $\text{C}_3\text{H}_6\text{O}(\text{C}_2\text{H}_4\text{O})_8\text{CH}_3$ ] and Solvactant DMH-7  
 (dimethylhexanol ethoxylate).

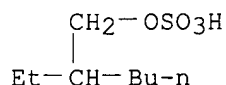
IT **126-92-1**, Avirol SA 4106

RL: POF (Polymer in formulation); TEM (Technical or engineered material  
 use); USES (Uses)

(Avirol SA 4106; surfactant blend of a polyoxyalkylene-siloxane and an  
 organic compound having a short chain hydrophobic moiety)

RN 126-92-1 HCAPLUS

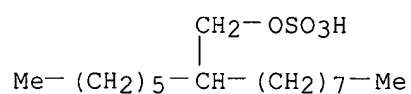
CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX  
 NAME)



● Na

L133 ANSWER 16 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1996:623051 HCAPLUS  
 DN 125:256774  
 TI Skin cleansers containing combinations of anionic and nonionic surfactants  
 IN Sakurai, Naoe; Sumida, Hikaru; Komori, Takashi  
 PA Kao Corporation, Japan  
 SO Eur. Pat. Appl., 20 pp.  
 CODEN: EPXXDW  
 DT **Patent**  
 LA English  
 FAN.CNT 1

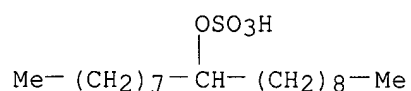
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 728475	A2	19960828	EP 1995-119222	19951206 <--
	EP 728475	A3	19970319		
	R: DE, FR, GB				
	JP 08225441	A	19960903	JP 1995-58065	19950221 <--
	JP 3562015	B2	20040908		
	JP 09020618	A	19970121	JP 1995-196165	19950707 <--
	US 5716626	A	19980210	US 1995-568977	19951207 <--
	CN 1134816	A	19961106	CN 1995-121653	19951209 <--
PRAI	JP 1995-58065	A	19950221	<--	
	JP 1995-196165	A	19950707	<--	
OS	MARPAT 125:256774				
AB	<p>The skin cleanser of the present invention makes it possible to thoroughly wash off oily stains such as makeup articles (lipstick, eye-makeup, waterproof foundation, etc.) while giving a good feel in use. A <b>detergent</b> composition containing the following components (A) and (B) is packed in a foamer container provided with a porous membrane: (A) at least one anionic surfactant having a branched hydrocarbon group selected from phosphate surfactants, sulfate surfactants and sulfonate surfactants; and (B) at least one nonionic surfactant. A cleansing foam with a high detergency contained 2-hexyldecyl phosphate triethanolamine 5, arginine 2-heptylundecyl phosphate 5, POE sorbitan monostearate 5, glycerol 10, 1,3-butylene glycol 10, ethanol 5, and purified water 60 %.</p>				
IT	<p><b>25542-86-3</b>, Sodium 2-hexyldecyl sulfate <b>78204-53-2</b>  <b>128482-64-4</b> <b>181355-78-2</b> <b>182155-73-3</b>          RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)          (skin cleansing foams containing combinations of anionic and nonionic surfactants)</p>				
RN	25542-86-3 HCAPLUS				
CN	1-Decanol, 2-hexyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)				



● Na

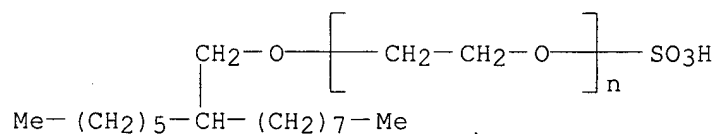
RN 78204-53-2 HCAPLUS

CN 9-Octadecanol, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 128482-64-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2-hexyldecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)

● Na

RN 181355-78-2 HCAPLUS

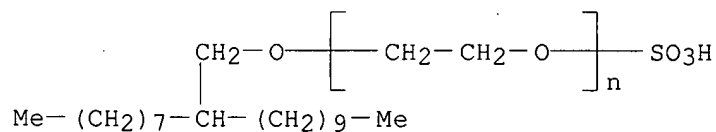
CN Ethanol, 2,2',2''-nitrilotris-, compd. with  $\alpha$ -sulfo- $\omega$ -[(2-octyldodecyl)oxy]poly(oxy-1,2-ethanediyl) (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 181355-77-1

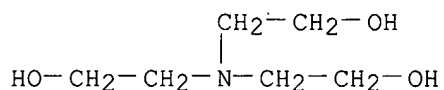
CMF (C2 H4 O)<sub>n</sub> C20 H42 O4 S

CCI PMS



CM 2

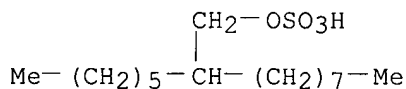
CRN 102-71-6  
CMF C6 H15 N O3



RN 182155-73-3 HCAPLUS  
CN 1-Decanol, 2-hexyl-, hydrogen sulfate, compd. with 2,2',2''-nitrilotris[ethanol] (1:1) (9CI) (CA INDEX NAME)

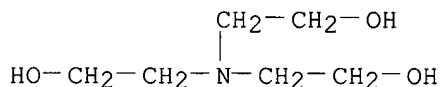
CM 1

CRN 182155-72-2  
CMF C16 H34 O4 S



CM 2

CRN 102-71-6  
CMF C6 H15 N O3



L133 ANSWER 17 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
AN 1996:607420 HCAPLUS  
DN 125:236084  
TI Conductive polymer composition and its preparation  
IN Kudoh, Yasuo; Kojima, Toshikuni; Akami, Kenji  
PA Matsushita Electric Industrial Co., Ltd., Japan  
SO Eur. Pat. Appl., 16 pp.  
CODEN: EPXXDW

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 727788	A2	19960821	EP 1996-102349	19960216 <--
	EP 727788	A3	19970514		
	EP 727788	B1	20010620		
	R: DE, FR, GB				
	JP 09268258	A	19971014	JP 1996-26369	19960214 <--
	JP 3127819	B2	20010129		
	US 5895606	A	19990420	US 1996-602645	19960216 <--
	EP 1031998	A2	20000830	EP 2000-107240	19960216 <--
	EP 1031998	A3	20011128		
	R: DE, FR, GB				

PRAI JP 1995-29431 A 19950217 <--  
 JP 1995-159001 A 19950626 <--  
 JP 1996-14939 A 19960131 <--  
 EP 1996-102349 A3 19960216 <--

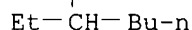
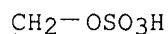
AB A conductive polymer composition comprises a conjugated double bond-bearing polymer and a composite dopant consisting essentially of an organic anion derived from an anionic surfactant and an inorg. anion derived from a transition metal salt. A process for preparing the conductive polymer composition

is also described, where the polymerization proceeds rapidly with the coexistence of the organic and inorg. anions. The addition of fine particles of an oxide is effective in film formation on substrates.

IT 126-92-1, Sodium 2-ethylhexylsulfate  
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (preparation of conductive polymer compns. containing)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 18 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:590859 HCAPLUS

DN 125:279280

TI High foaming nonionic surfactant based liquid **detergent**

IN Gomes, Gilbert S.; Erilli, Rita; Kern, Ronald

PA Colgate-Palmolive Co., USA

SO U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 91, 513, abandoned.

CODEN: USXXAM

DT **Patent**

LA English

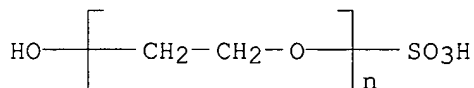
FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5556577	A	19960917	US 1995-391281	19950221 <--
	ZA 9404974	A	19960708	ZA 1994-4974	19940708 <--
PRAI	US 1992-893138	B2	19920603		<--
	US 1993-91513	B2	19930709		<--

AB A high foaming, light duty liquid **detergent** with desirable cleansing properties and mildness to the human skin comprises a water soluble nonionic surfactant, a ethoxylated alkyl ether sulfate anionic surfactant, a zwitterionic betaine surfactant and the balance being water. The **detergent** is free of amine oxides, clay fatty acids or a metal salt of a fatty acid, sulfonate surfactants, and polymeric or alkyl sulfate surfactants and the concentration of the nonionic surfactant is always greater than the concentration of the ethoxylated alkyl ether sulfate surfactant.

Neodol 1-9 was used as nonionic surfactant in a formulation in 15.5%

concentration  
 IT **34503-11-2D**, Polyethylene glycol sodium sulfate, alkyl ethers  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (high foaming nonionic surfactant-based liquid **detergent**)  
 RN 34503-11-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt  
 (9CI) (CA INDEX NAME)



● Na

L133 ANSWER 19 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1996:485864 HCAPLUS  
 DN 125:118073  
 TI Granular **detergent** compositions containing deflocculating  
 polymers  
 IN Scherr, Elliot M.; Repinec, Stephen T., Jr.  
 PA Colgate-Palmolive Company, USA  
 SO PCT Int. Appl., 33 pp.  
 CODEN: PIXXD2  
 DT **Patent**  
 LA English  
 FAN.CNT 2

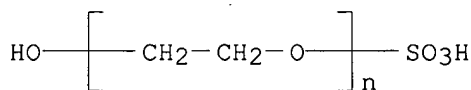
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9617919	A1	19960613	WO 1995-US15591	19951130 <--
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5723427	A	19980303	US 1995-529702	19950918 <--
	AU 9644128	A	19960626	AU 1996-44128	19951130 <--
	EP 796316	A1	19970924	EP 1995-942953	19951130 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
PRAI	US 1994-350197	A	19941205 <--		
	US 1995-529702	A	19950918 <--		
	WO 1995-US15591	W	19951130 <--		

AB The present invention provides for concentrated, granular **detergent** comps. comprising a mixture of: a) 15-50% of a surfactant; b)  $\geq 1$  **detergent** builder; c) 0.01-7.5% of a deflocculating polymer composition containing polymer chains of the structure P-QR, wherein P represents a polymer chain segment of a hydrophilic polymer, and QR represents a hydrophobic end-cap group wherein R is an organic hydrophobic radical containing  
 from about 4 to 28 carbon atoms, and Q is selected from the group consisting of O, CO<sub>2</sub>, S, SO< SO<sub>2</sub>, NR', PO<sub>4</sub>R, PO<sub>3</sub>R', Si OR'R'', Si R'R'', CR'OH, CR'R'' and CR' OR'' wherein R' and R'' are each hydrogen, and alkyl group containing from 1 to 4 carbon atoms or an aryl group; and d) water. The addition of the deflocculating polymer to a crutcher slurry prior to drying



the slurry retards the propensity of the lamellar surfactant droplets dispersed in the slurry to flocculate, particularly where the droplets occupy a higher volume ratio as the result of high concns. of surfactant present in the **detergent**. The resultant slurry exhibits a significantly reduced viscosity which renders it more readily pumpable in a spray drying process. Acrylic acid-dodecyl mercaptan-maleic acid telomer was used as a typical deflocculating agent.

IT **34503-11-2D**, Polyoxyethylene sulfate sodium salt, alkyl ethers  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (granular **detergent** compns. containing deflocculating polymers)  
 RN 34503-11-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt  
 (9CI) (CA INDEX NAME)



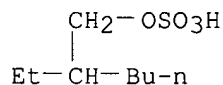
● Na

L133 ANSWER 20 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1996:456221 HCAPLUS  
 DN 125:171576  
 TI Glass cleaner compositions with good filming and streaking characteristics to provide long-lasting hydrophilicity  
 IN Masters, Ronald A.; Maile, Michael S.  
 PA Procter and Gamble Co., USA  
 SO U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 284,778, abandoned.  
 CODEN: USXXAM  
 DT **Patent**  
 LA English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5534198	A	19960709	US 1995-378205	19950125 <--
	CA 2196611	A1	19960215	CA 1995-2196611	19950721 <--
	CA 2196611	C	20000919		
	WO 9604358	A1	19960215	WO 1995-US9273	19950721 <--
	W: AU, BR, CA, FI, JP, MX, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9531038	A	19960304	AU 1995-31038	19950721 <--
	AU 704638	B2	19990429		
	EP 804536	A1	19971105	EP 1995-926772	19950721 <--
	EP 804536	B1	20000112		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
	JP 10503797	T	19980407	JP 1995-506574	19950721 <--
	BR 9508507	A	19980602	BR 1995-8507	19950721 <--
	AT 188731	T	20000115	AT 1995-926772	19950721 <--
	ES 2141951	T3	20000401	ES 1995-926772	19950721 <--
	PT 804536	T	20000531	PT 1995-926772	19950721 <--
	FI 9700431	A	19970131	FI 1997-431	19970131 <--
	NO 9700432	A	19970401	NO 1997-432	19970131 <--
	GR 3032912	T3	20000731	GR 2000-400609	20000308 <--
PRAI	US 1994-284778	B2	19940802	<--	
	US 1995-378205	A	19950125	<--	

WO 1995-US9273 W 19950721 <--  
 OS MARPAT 125:171576  
 AB An aqueous liquid **detergent** composition for cleaning of hard surfaces (especially glass surfaces) comprises 0.001-2 weight% of surfactants selected from: (1) an amphiphilic carboxylate, of general formula  

$$\text{RN(R1)(CH2)nN(R2)(CH2)pC(=O)OM}$$
 (R = C6-10-fatty acyl; R1 = H, C1-2-alkyl; R2 = C1-3-alkyl or substituted C1-3-alkyl; n = 1-3; p = 1-2; M is an alkali metal cation, NH4+, or alkanolammonium), (2) a zwitterion surfactant, of general formula R3[C(=O)NR4(CR52)n]mN(R6)2+-(CR52)pY- (R3 = C10-18-alkyl or alkylene; R4, R6 = H, Me, Et, Pr, hydroxyethyl, or hydroxypropyl; R5 = H or OH; m = 0-1; n = 1-4; p = 1-4; Y is carboxylate or sulfonate), and (3) an anionic surfactant, of general formula R9-(R10)O-SO3-.M+ (R9 = C6-20-alkyl; R10 = C6-20-alkylene, C6H4, or O; M is an alkali metal cation, NH4+, or alkanolammonium). In addition, the comps. also contain: (1) 0.5-15 weight% of a hydrophobic solvent with hydrogen bonding parameter of 2-7, (2) an alkaline material to provide a pH of 9-12; (3) 0.01-0.3 weight% of a polymer to make the hard (glass) surface more hydrophilic (especially a polycarboxylate with mol. weight 104 to 3 + 106, or a sulfonated polystyrene of mol. weight 104-106), and (4) water, optionally containing a non-aqueous polar solvent (e.g., MeOH, EtOH, iso-PrOH, ethylene glycol, glycol ethers, or polypropylene glycol).  
 IT 126-92-1, Sodium octyl sulfate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (glass cleaner comps. with good filming and streaking characteristics to provide long-lasting hydrophilicity)  
 RN 126-92-1 HCAPLUS  
 CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 21 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:150266 HCAPLUS

DN 124:235616

TI Aqueous cleaning compositions for hard surfaces

IN Gordon, Neil James

PA Procter and Gamble Co., USA

SO PCT Int. Appl., 15 pp.

CODEN: PIXXD2

DT **Patent**

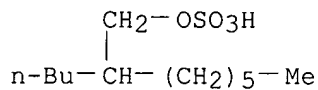
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9533024	A1	19951207	WO 1995-US5839	19950510 <--
	W: AU, BR, CA, FI, JP, MX, NO, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EG	21545	A	20011231	EG 1995-98	19950201 <--
CA	2191135	A1	19951207	CA 1995-2191135	19950510 <--
CA	2191135	C	20000118		

jan delaval - 11 january 2007.

AU 9525463 A 19951221 AU 1995-25463 19950510 <--  
 AU 703727 B2 19990401  
 EP 763083 A1 19970319 EP 1995-919780 19950510 <--  
 EP 763083 B1 20010718  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE  
 BR 9507810 A 19970916 BR 1995-7810 19950510 <--  
 JP 10501275 T 19980203 JP 1995-500890 19950510 <--  
 ES 2158112 T3 20010901 ES 1995-919780 19950510 <--  
 US 5910477 A 19990608 US 1997-750190 19970224 <--  
 GR 3036240 T3 20011031 GR 2001-400943 20010719 <--  
 PRAI EP 1994-870090 A 19940531 <--  
 EP 1995-919780 A 19950510 <--  
 WO 1995-US5839 W 19950510 <--  
 OS MARPAT 124:235616  
 AB These compns. are are viscous but at the same time easy to rinse. Such compns. are formulated by using an amine oxide, or amine, or mixts. thereof, in combination with a secondary, or primary monobranched alkyl sulfate or sulfonate in a mildly acidic system further comprising a hydrotrope and an organic acid.  
 IT **94200-74-5**, Sodium 2-butyloctyl sulfate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (Isofol 12S; viscous aqueous cleaning compns. with good rinsability for hard surfaces)  
 RN 94200-74-5 HCAPLUS  
 CN 1-Octanol, 2-butyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)



● Na

L133 ANSWER 22 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1995:946786 HCAPLUS

DN 123:345408

TI Solvent soaps and methods employing them

IN Van Slyke, Donald C.

PA Union Oil Co., USA

SO PCT Int. Appl., 82 pp.

CODEN: PIXXD2

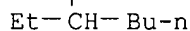
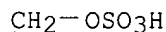
DT **Patent**

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9517244	A1	19950629	WO 1994-US8729	19940802 <--
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN				
	RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5634984	A	19970603	US 1994-210144	19940317 <--
	AU 9477143	A	19950710	AU 1994-77143	19940802 <--
	AU 684309	B2	19971211		
	EP 735919	A1	19961009	EP 1994-927908	19940802 <--

EP 735919 B1 19980121  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
 BR 9408417 A 19970805 BR 1994-8417 19940802 <--  
 ES 2114226 T3 19980516 ES 1994-927908 19940802 <--  
 PRAI US 1993-172429 A 19931222 <--  
 US 1994-210144 A 19940317 <--  
 WO 1994-US8729 W 19940802 <--  
 AB Compns. comprising (a) a surfactant and (b) a diluent oil are employed in oil-based drilling fluids and processes for cleaning oil-contaminated substrates (e.g., oil-contaminated animals, drill cuttings) as well as in processes for cementing well casings, enhanced oil recovery, and lifting oil from wellbores.  
 IT 126-92-1, Sodium 2-ethylhexylsulfate.  
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; solvent soaps and methods for cleaning oil-coated substrates and drill cuttings)  
 RN 126-92-1 HCAPLUS  
 CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 23 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1995:726266 HCAPLUS

DN 123:122733

TI Shampoo conditioners containing surfactants and film-forming polymers and quaternary ammonium derivatives and siloxanes

IN Patel, Amrit; Robbins, R. Clarence

PA Colgate-Palmolive Co., USA

SO Fr. Demande, 36 pp.

CODEN: FRXXBL

DT **Patent**

LA French

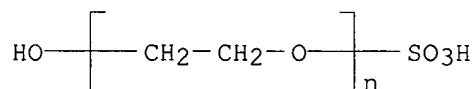
FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2712490	A1	19950524	FR 1994-13855	19941118 <--
	FR 2712490	B1	20000204		
	ZA 9408478	A	19960429	ZA 1994-8478	19941027 <--
	AU 9477575	A	19950525	AU 1994-77575	19941031 <--
	AU 674255	B2	19961212		
	BR 9404485	A	19950711	BR 1994-4485	19941117 <--
	TW 388714	B	20000501	TW 1995-84104960	19950519 <--
	US 5726137	A	19980310	US 1996-714928	19960927 <--
PRAI	US 1993-155251	A	19931119	<--	
	US 1989-369361	B2	19890621	<--	
	US 1989-369389	B2	19890621	<--	
	US 1989-432644	A2	19891107	<--	
	US 1989-432952	B2	19891107	<--	
	US 1990-507335	A2	19900409	<--	

US 1992-984786 A2 19921203 <--  
 US 1995-440572 B1 19950515 <--  
 AB The title shampoo conditioners are claimed. A shampoo conditioner contained ammonium lauryl sulfate 16.000, sodium deceth-3-sulfate 15.000, sodium cumene sulfonate 7.500, Na4EDTA 0.100, Na2HPO4 0.200, copra-amidopropylbetaine 30.00, Polyquaternium-10 0.500, polyquaternium-7 2.500, isosteareth-2 2.000, C20-40 aliphatic alcs. 4.000, distearyldimethylammonium chloride 1.000, colors 0.250, perfumes 1.200, preservatives 1.000, and water q.s. 18.750%.

IT **34503-11-2**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (shampoo conditioners containing surfactants and film-forming polymers and quaternary ammonium derivs. and siloxanes)

RN 34503-11-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

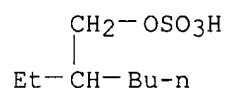


● Na .

L133 ANSWER 24 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1995:312265 HCAPLUS  
 DN 122:84320  
 TI Use of short-chain sulfate and sulfonate surfactants in **detergents**  
 IN Cilley, William Ajalon; Brown, Donald Ray  
 PA Procter and Gamble Co., USA  
 SO PCT Int. Appl., 23 pp.  
 CODEN: PIXXD2  
 DT **Patent**  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9410272	A1	19940511	WO 1993-US10447	19931029 <--
	W: BR, CA, CZ, HU, JP, PL, RU, SK				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2148469	A1	19940511	CA 1993-2148469	19931029 <--
	CA 2148469	C	20000118		
	EP 667892	A1	19950823	EP 1993-925135	19931029 <--
	EP 667892	B1	19990707		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 08503013	T	19960402	JP 1994-511361	19931029 <--
	EP 916719	A2	19990519	EP 1998-204327	19931029 <--
	EP 916719	A3	19990714		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
	BR 9307361	A	19990601	BR 1993-7361	19931029 <--
	ES 2133421	T3	19990916	ES 1993-925135	19931029 <--
	US 6180583	B1	20010130	US 1996-720584	19961002 <--
PRAI	US 1992-970665	A	19921103	<--	
	US 1993-83412	A	19930628	<--	
	EP 1993-925135	A3	19931029	<--	

WO 1993-US10447 W 19931029 <--  
 US 1995-396370 B1 19950228 <--  
 US 1995-566371 B1 19951201 <--  
 OS MARPAT 122:84320  
 AB The title surfactants, e.g., Na octyl sulfate (I) or Na C8-alkanesulfonate, provide a solventlike cleaning function, especially in cleaners for bathrooms and kitchens. A cleaning composition contained NaOCl 2.0, lauryldimethylamine oxide 1.0, I 4.0, perfume 0.2, NaOH 0.75, and H2O 92.05%.  
 IT **126-92-1**, Sodium octyl sulfate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (in cleaners for bathroom and kitchen)  
 RN 126-92-1 HCAPLUS  
 CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 25 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1994:247836 HCAPLUS

DN 120:247836

TI Preparation of surface-active alkyl ether sulfate with low odor

IN Behler, Ansgar; Ploog, Uwe; Koehler, Michael; Hensen, Hermann; Seipel, Werner; Demmering, Guenther; Komp, Horst Dieter

PA Henkel K.-G.a.A., Germany

SO Ger. Offen., 4 pp.

CODEN: GWXXBX

DT **Patent**

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4218075	A1	19931202	DE 1992-4218075	19920601 <--
	WO 9324453	A1	19931209	WO 1993-EP1300	19930524 <--
	W: BR, CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 643691	A1	19950322	EP 1993-912774	19930524 <--
	EP 643691	B1	19970827		
	R: AT, BE, DE, ES, FR, GB, IT, LU, NL				
	JP 07507064	T	19950803	JP 1993-500176	19930524 <--
	AT 157353	T	19970915	AT 1993-912774	19930524 <--
	ES 2105272	T3	19971016	ES 1993-912774	19930524 <--
	US 5565598	A	19961015	US 1994-347332	19941130 <--
PRAI	DE 1992-4218075	A	19920601	<--	
	WO 1993-EP1300	W	19930524	<--	

OS MARPAT 120:247836

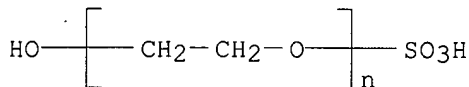
AB A fatty alc. mixture (e.g., coco fatty alc.) containing no compds. b. <235° is ethoxylated and sulfated to give a surfactant having no odor.

IT **34503-11-2DP**, fatty alkyl ethers

RL: IMF (Industrial manufacture); PREP (Preparation)

(preparation of surface-active, with low odor, purified alcs. for)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt  
(9CI) (CA INDEX NAME)

● Na

L133 ANSWER 26 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1994:167320 HCAPLUS

DN 120:167320

TI Blends of anionic and nonionic surfactants for **detergent**  
compositions, and their manufacture

IN Bator, Patricia E.; Salka, Barry A.

PA Henkel Corp., USA

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9315172	A1	19930805	WO 1993-US682	19930201 <--
	W: AU, BR, CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9335929	A	19930901	AU 1993-35929	19930201 <--
	US 5403516	A	19950404	US 1993-112866	19930826 <--
PRAI	US 1992-830808	A	19920204	<--	
	WO 1993-US682	A	19930201	<--	

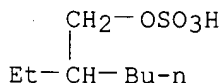
AB Blends of 50-90% short-chain anionic surfactant (e.g., Na 2-ethylhexyl sulfate or Na octyl sulfate) and 10-50% nonionic surfactant ethoxylated with 2-7 mol ethylene oxide (e.g., ethoxylated C12, C13, or C14 alkanol) show good solubility and detergency in **detergent** compns. such as builder-containing compns. for laundering. The blends are especially useful in clear liquid **detergent** compns.IT **126-92-1**, Sodium 2-ethylhexyl sulfate

RL: USES (Uses)

(surfactant mixts. containing ethoxylated alcs. and, for **detergents**)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 27 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1992:257899 HCAPLUS

DN 116:257899

TI Improved aqueous degreaser compositions containing a sparingly soluble solvent

IN Vaneenam, Donald N.

PA Buckeye International, Inc., USA

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9115565	A1	19911017	WO 1991-US2341	19910404 <--
	W: AU, CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	US 5080822	A	19920114	US 1990-507197	19900410 <--
	CA 2080352	A1	19911011	CA 1991-2080352	19910404 <--
	CA 2080352	C	19980505		
	AU 9176949	A	19911030	AU 1991-76949	19910404 <--
	EP 525032	A1	19930203	EP 1991-907867	19910404 <--
	EP 525032	B1	20000119		
	R: BE, DE, FR, GB, NL				
	JP 05507300	T	19931021	JP 1991-507763	19910404 <--
	JP 2528053	B2	19960828		
PRAI	US 1990-507197	A	19900410	<--	
	WO 1991-US2341	A	19910404	<--	

AB The title compns. contain  $\geq 1$  organic solvent which has water solubility 0.2-6%, is not a hydrocarbon or halocarbon, contains  $\geq 1$  functional group containing O, N, S, and/or P, is a solvent for hydrophobic soils, and is present in a concentration exceeding its water solubility, water, and a solubilizing

coupler which has aqueous surface tension  $> 45$  dynes/cm at 0.01-1.0% concentration and

is present in a concentration of  $\leq 25\%$  of that required to completely solubilize the organic solvent. The compns. remove ink or crayon markings from alkyd-enameled surfaces, greasy soils from glass, etc. Thus, a composition contained PhOCH<sub>2</sub>CH<sub>2</sub>OH 4.0, Na cumenesulfonate (45%) 5.5, and H<sub>2</sub>O 90.5%.

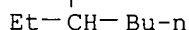
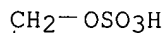
IT 126-92-1

RL: USES (Uses)

(solubilizers, for organic solvents in aqueous cleaners)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)





L133 ANSWER 28 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1992:131122 HCAPLUS

DN 116:131122

TI Low-foaming silicone-free aqueous textile auxiliaries, their preparation and their use

IN Guth, Christian; Stehlin, Albert

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 462059	A2	19911218	EP 1991-810421	19910604 <--
	EP 462059	A3	19920311		
	EP 462059	B1	19970702		
	R: CH, DE, ES, FR, GB, IT, LI				
	ES 2106068	T3	19971101	ES 1991-810421	19910604 <--
	KR 221114	B1	19990915	KR 1991-9488	19910610 <--
	JP 05044161	A	19930223	JP 1991-138073	19910611 <--
	JP 2872447	B2	19990317		
	US 5456847	A	19951010	US 1993-171887	19931222 <--
PRAI	CH 1990-1945	A	19900611	<--	
	CH 1991-709	A	19910308	<--	
	US 1991-712848	B1	19910610	<--	
	US 1993-8246	B1	19930121	<--	

OS MARPAT 116:131122

AB Title auxiliaries comprise a reaction product of a nonionic surfactant RO(ZO)pR1 (I) (R = C<sub>≥</sub>8 residue, R1 = H, C1-8 alkyl, C<sub>≥</sub>5 cycloalkyl, alkylphenyl, styryl, Z = C2-4 alkylene; p = 2-60) with an acid, water-solubilizing group-containing compound, and I and optionally a hydrotropic compound. Thus, a composition containing I (R = C9/11 alkyl, R1 = Bu, Z =

CH2CH2, p = .apprx.10) 20, K salt of a phosphate ester 5, reaction product of C9-11 fatty alc. ethoxylated with 9 mol ethylene oxide with acrylic acid 50, and water 25 parts was used in a H2O2-bleaching bath for a cotton knit to give a nonfoaming bath with good bleaching and cotton with good absorbency.

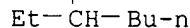
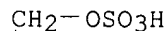
IT 126-92-1, Sodium 2-ethylhexyl sulfate

RL: USES (Uses)

(textile auxiliary composition containing, nonfoaming, silicone-free)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



L133 ANSWER 29 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1992:108844 HCAPLUS

DN 116:108844

TI Preparation of co-sulfated ethoxylated alcohols and unsaturated fatty alcohols as surfactants  
 IN Matthews, Randall Stryker; Ward, James Frank  
 PA Procter and Gamble Co., USA  
 SO PCT Int. Appl., 36 pp.  
 CODEN: PIXXD2

DT **Patent**  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9113057	A1	19910905	WO 1991-US1111	19910225 <--
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	CN 1057971	A	19920122	CN 1991-101809	19910310 <--
PRAI	US 1990-487464	A	19900301	<--	
OS	MARPAT 116:108844				

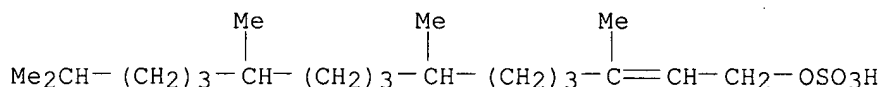
AB The title compds. comprise a mixture of unsatd. fatty alc. such as oleyl alc. and R1(OCH2CH2)nOH (R1 = straight- or branched-chain C10 alkyl; n = 3-8) reacted with H2SO4, wherein the mol ratio of unsatd. alc. plus ethoxylated alc. to H2SO4 is 1:1-3:1, the reaction process is carried out 3.5-4.5 h at 40-50° and 0.04-0.06 mmHg and the mixed product system comprises by weight unsatd. fatty acid sulfate and ethoxylated acid sulfate, 35 and 45%, resp. Since the products tend to be unstable, they should be neutralized to form salts which may be used in laundry **detergent** compns. A mixture of 96.4% H2SO4 and Et2O was cooled to 0° while adding Me(CH2)9(OCH2CH2)5 and oleyl alc., the reaction was heated to 40-50° for 4 h under vacuum of 0.05 mmHg to give a mixed Me(CH2)7CH:CH(CH2)7CH2OSO3H, Me(CH2)9(OCH2CH2)5OSO3H and starting material. The products in EtOH were neutralized with 1 N NaOH to give a mixed surfactant system containing the appropriate Na salts.

IT **137427-55-5P**

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of, as laundry **detergent** component)

RN 137427-55-5 HCAPLUS

CN 2-Hexadecen-1-ol, 3,7,11,15-tetramethyl-, hydrogen sulfate, sodium salt  
 (9CI) (CA INDEX NAME)



● Na

L133 ANSWER 30 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1991:658721 HCAPLUS

DN 115:258721

TI Process for sulfating unsaturated alcohols primarily at the hydroxy group

IN Randall, Stryker Matthews; Ward, James Frank

PA Procter and Gamble Co., USA

SO PCT Int. Appl., 34 pp.

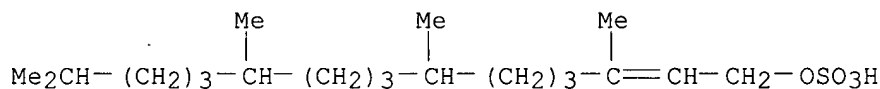
CODEN: PIXXD2

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9109011	A1	19910627	WO 1990-US6761	19901116 <--
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	US 5037992	A	19910806	US 1989-451840	19891218 <--
	CA 2072622	A1	19910619	CA 1990-2072622	19901116 <--
	CA 2072622	C	19950815		
	EP 539370	A1	19930505	EP 1991-902899	19901116 <--
	EP 539370	B1	19950201		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 05502674	T	19930513	JP 1991-503204	19901116 <--
	ES 2067217	T3	19950316	ES 1991-902899	19901116 <--
PRAI	US 1989-451840	A	19891218	<--	
	WO 1990-US6761	W	19901116	<--	
OS	MARPAT 115:258721				
AB	Unsatd. alcs. ROH (R = C8-22 alkenyl) are sulfated primarily at the OH group by reaction with an ether sulfate R1(OCH2CH2)nOSO3M (R1 = C1-18 hydrocarbyl; n = 1-10; M = alkali metal) in the presence of an acid catalyst, giving alkenyl sulfates for use as surfactants. A solution of 2.67 g oleyl alc. and 10 mL Et2O was mixed with 1.78 g MeOCH2CH2OSO3Na, stirred rapidly while 0.05 g H2SO4 was added, and stirred 18 h to give a product containing Na oleyl sulfate and MeOCH2CH2OH.				
IT	<b>137427-55-5P</b>				
	RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of, by transulfation)				
RN	137427-55-5 HCAPLUS				
CN	2-Hexadecen-1-ol, 3,7,11,15-tetramethyl-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)				

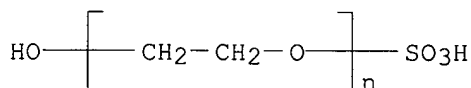


● Na

L133 ANSWER 31 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1991:519827 HCAPLUS  
 DN 115:119827  
 TI Shampoos comprising cationic guar gum derivative  
 IN Reid, Euan Stuart; Murray, Andrew Malcolm  
 PA Unilever PLC, UK; Unilever N. V.  
 SO Eur. Pat. Appl., 8 pp.  
 CODEN: EPXXDW  
 DT **Patent**  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 432951	A2	19910619	EP 1990-313097	19901203 <--
	EP 432951	A3	19910807		
	EP 432951	B1	19931020		
	EP 432951	B2	20040630		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	CA 2031382	A1	19910605	CA 1990-2031382	19901203 <--

CA 2031382	C	19950919		
US 5085857	A	19920204	US 1990-621482	19901203 <--
AT 96013	T	19931115	AT 1990-313097	19901203 <--
ES 2060070	T3	19941116	ES 1990-313097	19901203 <--
AU 9067725	A	19910606	AU 1990-67725	19901204 <--
AU 620746	B2	19920220		
BR 9006139	A	19910924	BR 1990-6139	19901204 <--
JP 04036226	A	19920206	JP 1990-407428	19901204 <--
JP 06062392	B	19940817		
ZA 9009737	A	19920826	ZA 1990-9737	19901204 <--
JP 04364111	A	19921216	JP 1990-407427	19901204 <--
JP 07017491	B	19950301		
PRAI GB 1989-27385	A	19891204	<--	
GB 1990-16101	A	19900723	<--	
EP 1990-313097	A	19901203	<--	
AB	An aqueous shampoo comprises 2-40% surfactant(s), 0.01-3% cationic guar gum derivative, and 0.1-10% insol. nonvolatile silicone as emulsified particles (<2 µm particle size). A shampoo was made of ethoxylated Na lauryl ether sulfate 16.0, laurylbetaine 2.0, silicone oil (1% emulsion) 0.5, Jaguar C13s (guar hydroxypropyltrimmonium chloride) 0.2, Carbopol-940 0.4 and water to 100.0% by weight			
IT	<b>34503-11-2</b>			
	RL: BIOL (Biological study)			
	(shampoos containing guar gum cationic derivs. and)			
RN	34503-11-2 HCAPLUS			
CN	Poly(oxy-1,2-ethanediyl), α-sulfo-ω-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)			



● Na

L133 ANSWER 32 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1991:498976 HCAPLUS

DN 115:98976

TI Hair conditioning shampoo containing alkyl or alkoxy sulfate

IN Hartnett, Donna A.; Patel, Amrit M.; Reich, Charles; Robbins, Clarence R.

PA Colgate-Palmolive Co., USA

SO Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DT **Patent**

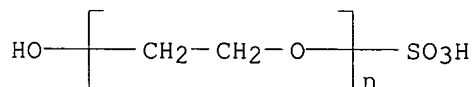
LA English

FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 413417	A2	19910220	EP 1990-306365	19900612 <--
	EP 413417	A3	19910814		
	EP 413417	B1	19950208		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
	US 5051250	A	19910924	US 1989-432644	19891107 <--
	US 4997641	A	19910305	US 1990-507328	19900409 <--
	US 5213716	A	19930525	US 1990-507335	19900409 <--
	IN 179980	A1	19980103	IN 1990-DE582	19900614 <--

AU 9057558	A	19910103	AU 1990-57558	19900618 <--
AU 9057559	A	19910516	AU 1990-57559	19900618 <--
AU 635749	B2	19930401		
AU 9057533	A	19911010	AU 1990-57533	19900618 <--
AU 642651	B2	19931028		
AU 9057556	A	19911010	AU 1990-57556	19900618 <--
AU 640143	B2	19930819		
AU 9057688	A	19910516	AU 1990-57688	19900619 <--
AU 640382	B2	19930826		
PL 164567	B1	19940831	PL 1990-285678	19900619 <--
PL 165297	B1	19941230	PL 1990-285682	19900619 <--
CA 2019352	A1	19901221	CA 1990-2019352	19900620 <--
CA 2019358	A1	19901221	CA 1990-2019358	19900620 <--
NO 9002747	A	19901227	NO 1990-2747	19900620 <--
HU 54296	A2	19910228	HU 1990-3927	19900620 <--
HU 210429	B	19950428		
HU 54297	A2	19910228	HU 1990-3928	19900620 <--
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NO 9002746	A	19910508	NO 1990-2746	19900620 <--
CA 2019353	A1	19911009	CA 1990-2019353	19900620 <--
FI 9003129	A	19911010	FI 1990-3129	19900620 <--
FI 97948	B	19961213		
FI 97948	C	19970325		
FI 9003130	A	19911010	FI 1990-3130	19900620 <--
NO 9002743	A	19911010	NO 1990-2743	19900620 <--
NO 178748	B	19960219		
NO 178748	C	19960529		
NO 9002744	A	19911010	NO 1990-2744	19900620 <--
NO 177923	B	19950911		
NO 177923	C	19951220		
HU 57575	A2	19911230	HU 1990-3924	19900620 <--
HU 210756	B	19950728		
HU 57576	A2	19911230	HU 1990-3925	19900620 <--
HU 209692	B	19941028		
HU 57574	A2	19911230	HU 1990-3926	19900620 <--
HU 210123	B	19950228		
KR 182783	B1	19990501	KR 1990-9097	19900620 <--
KR 192157	B1	19990615	KR 1990-9095	19900620 <--
KR 192156	B1	19990615	KR 1990-9098	19900620 <--
CN 1048422	A	19910109	CN 1990-103036	19900621 <--
JP 03051367	A	19910305	JP 1990-163987	19900621 <--
CN 1051501	A	19910522	CN 1990-103032	19900621 <--
CN 1051599	A	19910522	CN 1990-103033	19900621 <--
JP 03153619	A	19910701	JP 1990-163989	19900621 <--
JP 3165428	B2	20010514		
JP 03153620	A	19910701	JP 1990-163990	19900621 <--
BR 9002924	A	19910820	BR 1990-2924	19900621 <--
BR 9002926	A	19910820	BR 1990-2926	19900621 <--
BR 9002930	A	19910820	BR 1990-2930	19900621 <--
CN 1055481	A	19911023	CN 1990-103034	19900621 <--
CN 1039877	B	19980923		
CN 1055482	A	19911023	CN 1990-103035	19900621 <--
DD 295404	A5	19911031	DD 1990-341930	19900621 <--
DD 295307	A5	19911031	DD 1990-341931	19900621 <--
DD 295308	A5	19911031	DD 1990-341932	19900621 <--
DD 295309	A5	19911031	DD 1990-341937	19900621 <--
DD 295310	A5	19911031	DD 1990-341946	19900621 <--
BR 9002923	A	19911112	BR 1990-2923	19900621 <--
JP 03291213	A	19911220	JP 1990-163991	19900621 <--
JP 03291212	A	19911220	JP 1990-163992	19900621 <--

JP 2975644	B2	19991110		
ZA 9004836	A	19920226	ZA 1990-4836	19900621 <--
ZA 9004837	A	19920226	ZA 1990-4837	19900621 <--
ZA 9004840	A	19920226	ZA 1990-4840	19900621 <--
ZA 9004843	A	19920226	ZA 1990-4843	19900621 <--
ZA 9004852	A	19920226	ZA 1990-4852	19900621 <--
CZ 286615	B6	20000517	CZ 1990-3095	19900621 <--
CZ 286571	B6	20000517	CZ 1990-3097	19900621 <--
CZ 286572	B6	20000517	CZ 1990-3098	19900621 <--
SK 281337	B6	20010212	SK 1990-3097	19900621 <--
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SK 282180	B6	20011106	SK 1990-3095	19900621 <--
SK 282720	B6	20021106	SK 2000-85	19900621 <--
US 5106613	A	19920421	US 1991-640663	19910114 <--
IN 176250	A1	19960323	IN 1991-DE659	19910722 <--
US 5415857	A	19950516	US 1992-963214	19921019 <--
IN 187427	A1	20020420	IN 1993-DE1047	19930917 <--
TW 422702	B	20010221	TW 1995-84105119	19950523 <--
US 5726137	A	19980310	US 1996-714928	19960927 <--
CZ 290337	B6	20020717	CZ 1998-1679	19980529 <--
PRAI US 1989-369361	A	19890621	<--	
US 1989-432644	A	19891107	<--	
US 1989-432952	A	19891107	<--	
US 1990-507328	A	19900409	<--	
US 1990-507335	A	19900409	<--	
US 1989-369389	B2	19890621	<--	
CS 1990-3095	A	19900621	<--	
CS 1990-3097	A	19900621	<--	
CS 1990-3098	A	19900621	<--	
CZ 1990-3095	A	19900621	<--	
US 1991-806679	B1	19911213	<--	
US 1992-984786	A2	19921203	<--	
US 1993-155251	B2	19931119	<--	
US 1995-440572	B1	19950515	<--	
OS MARPAT 115:98976				
AB	A hair conditioning composition comprises an anionic <b>detergent</b> which is a C6, C8 and/or C10 alkyl sulfate and/or a C6, C8 and/or C10 alkyl lower alkoxy sulfate, and a hair conditioning agent. A hair conditioning shampoo contained Natrosol 250HHR 0.45, Natrosol 330CS 0.15, Na decyl triethoxy ether sulfate 15.00, lauric monoethanolamide 3.50, ethylene glycol distearate 0.75, stearyl stearate 0.35, C18-36 acid triglyceride 0.75, triacetyl Me ammonium chloride 0.50, distearyldimethylammonium chloride 0.25, microcryst. wax 1.00, petrolatum 1.50, propylene glycol 0.50, and water 75.73%.			
IT	<b>34503-11-2</b> RL: BIOL (Biological study) (hair coditioning shampoo containing)			
RN	34503-11-2 HCAPLUS			
CN	Poly(oxy-1,2-ethanediyl), $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt (9CI) (CA INDEX NAME)			



● Na

L133 ANSWER 33 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1991:230638 HCAPLUS

DN 114:230638

TI Aqueous storage-stable low-foaming wetting agent for use in textile treatment

IN Guth, Christian; Stehlin, Albert

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 8 pp.

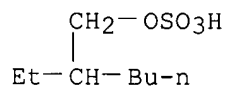
CODEN: EPXXDW

DT **Patent**

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 420802	A2	19910403	EP 1990-810704	19900917 <--
	EP 420802	A3	19910515		
	EP 420802	B1	19950809		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
	ES 2075891	T3	19951016	ES 1990-810704	19900917 <--
	CA 2026039	A1	19910327	CA 1990-2026039	19900924 <--
	CA 2026039	C	19980203		
	DD 298062	A5	19920206	DD 1990-344147	19900924 <--
	ZA 9007642	A	19910529	ZA 1990-7642	19900925 <--
	BR 9004788	A	19910910	BR 1990-4788	19900925 <--
	JP 03123634	A	19910527	JP 1990-254361	19900926 <--
	JP 2763190	B2	19980611		
	US 5484553	A	19960116	US 1993-163612	19931208 <--
PRAI	CH 1989-3478	A	19890926	<--	
	US 1990-586094	B1	19900919	<--	
	US 1993-47887	B1	19930415	<--	
OS	MARPAT 114:230638				
AB	The title wetting agent comprises 10-80% RO(ZO)pR1 (R = C <sub>≥</sub> 8 aliphatic group; R1 = H, C1-8 alkyl, C <sub>≥</sub> 5 cycloaliph. group, phenylalkyl, styryl; Z = C2-4 alkylene; p = 2-24) and 1-10% hydrotrope. An agent containing an adduct of 15 mol oxirane-methyloxirane mixture and 1 mol C9-11 fatty alcs. 25, water 63, Na 2-ethylhexyl sulfate 9, and 3,5,5-trimethylhexanol 3% was used in alkaline bleaching compns. for cotton.				
IT	126-92-1, Sodium 2-ethylhexyl sulfate				
	RL: USES (Uses)				
	(wetting agents, low-foaming, in bleaching of textiles)				
RN	126-92-1 HCAPLUS				
CN	Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)				



● Na

L133 ANSWER 34 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1989:560020 HCAPLUS

DN 111:160020

TI Gel denture cleanser containing **detergents** and chelating agents  
 IN Eoga, Anthony B. J.  
 PA Warner-Lambert Co., USA  
 SO U.S., 13 pp. Cont.-in-part of U.S. 4,701,223.  
 CODEN: USXXAM

DT **Patent**  
 LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4807649	A	19890228	US 1987-68673	19870630 <--
	US 4701223	A	19871020	US 1986-856715	19860428 <--
PRAI	US 1984-684818	A2	19841220	<--	
	US 1986-856715	A2	19860428	<--	

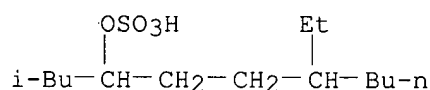
OS MARPAT 111:160020

AB A gel denture cleanser comprises (1) a water-soluble **detergent** selected from sulfonated fatty alcs. ROSO3M, sulfated fatty alcs. ROSO4M, and sulfoacetate ROCOCH2SO3M (R = C10-16 alkyl; M = alkali metal, alkaline earth metal), (2) a water-soluble chelating agent selected from amino carboxylates, organo phosphonates, and mixts. thereof, (3) a gelling agent, and (4) water. The combination of the **detergent** and the chelating agent alleviates the adverse respiratory and inhalation problems associated with the **detergent** and increases the cleansing efficacy. A gel denture cleanser contained Na CMC 3.0, Na dodecylbenzene sulfonate 5.0, Na4EDTA 10.0, PEG 6.0, and water 76.6% by weight. Stained denture tiles brushed with the cleanser showed significantly less stain remaining on the tiles than on the tiles cleaned with only water.

IT **139-88-8**, Sodium 7-ethyl-2-methyl-4-undecyl sulfate  
 RL: BIOL (Biological study)  
 (denture cleansing gel containing chelating agents and)

RN 139-88-8 HCAPLUS

CN 4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 35 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1988:226685 HCAPLUS

DN 108:226685

TI Sprayable liquid denture cleansers containing a fatty alcohol sulfate, sulfonate, and/or sulfoacetate and an amino carboxylate and/or organophosphonate

IN Eoga, Anthony B. J.

PA Warner-Lambert Co., USA

SO U.S., 10 pp. Cont.-in-part of U.S. Ser. No. 684,818, abandoned.

CODEN: USXXAM

DT **Patent**

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 4701223	A	19871020	US 1986-856715	19860428 <--
	CA 1255233	A1	19890606	CA 1985-498030	19851218 <--
	AU 8551511	A	19860626	AU 1985-51511	19851220 <--
	AU 589932	B2	19891026		
	ZA 8509781	A	19860827	ZA 1985-9781	19851220 <--
	JP 62000008	A	19870106	JP 1985-285948	19851220 <--
	US 4807649	A	19890228	US 1987-68673	19870630 <--

PRAI	US 1984-684818	A2	19841220 <--
	US 1986-856715	A2	19860428 <--

AB A storage-stable liquid denture cleanser comprises a **detergent** selected from sulfonated fatty alc. ROSO<sub>2</sub>M, a sulfated fatty alc. ROSO<sub>3</sub>M, and/or sulfoacetate ROCOCH<sub>2</sub>SO<sub>3</sub>M (R = C<sub>10</sub>-16, M = water-soluble alkali or alkaline earth metal) .apprx.3-18; a water-soluble chelating agent consisting of amino carboxylate and/or organophosphonates .apprx.3-18; and water 50-94 weight%. The cleanser is preferably sprayable. A 50-mL portion of a composition of Na lauryl sulfate 10.0, Na<sub>4</sub>EDTA 5.0, methylparaben 0.1, propylparaben 0.05, polyethylene glycol E400 1.0, and water 52.05 weight% dissolved 100 mg hydroxyapatite powder (representing tartar and calculus) in 2 h and the solution remained clear even after 1 wk at room temperature Control solns.

were cloudy after 1-wk of soaking. Tests with dentures confirmed these results.

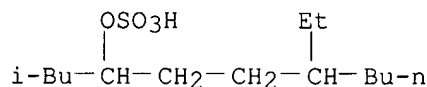
IT **139-88-8**, Sodium 7-ethyl-2-methyl-4-undecyl sulfate

RL: BIOL (Biological study)

(denture cleanser containing chelating agent and)

RN 139-88-8 HCAPLUS

CN 4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 36 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1988:206709 HCAPLUS

DN 108:206709

TI Fire-fighting foam

IN Hiltz, Ralph H.; Greer, John S.; Friel, Joseph V.

PA Mine Safety Appliances Co., USA

SO U.S., 3 pp.

CODEN: USXXAM

DT **Patent**

LA English

FAN.CNT 1

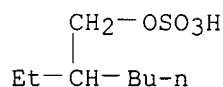
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 4713182	A	19871215	US 1986-927386	19861106 <--
	GB 2196846	A	19880511	GB 1987-24119	19871014 <--
	GB 2196846	B	19900912		
	DE 3736743	A1	19880511	DE 1987-3736743	19871030 <--
PRAI	US 1986-927386	A	19861106 <--		
AB	Stable concs. with low viscosity, which can be diluted with H <sub>2</sub> O and foamed				

for application on fires and spills of polar liqs. or H<sub>2</sub>O-immiscible organic materials, contain citrus pectin 4-6, alkylbetaines 3-9, Na C8-13-alkyl sulfates 9-20, and the salts RCONHCH<sub>2</sub>CH<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH (R = C8-12 alkyl; X<sub>1</sub> = CH<sub>2</sub>CO<sub>2</sub>-, CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>-; X<sub>2</sub> = H, CH<sub>2</sub>CO<sub>2</sub>H) 4-12%. A concentrate containing pectin 5, coco betaine 7.5, C<sub>5</sub>H<sub>11</sub>CONHCH<sub>2</sub>CH<sub>2</sub>N+(CH<sub>2</sub>CO<sub>2</sub>H)(CH<sub>2</sub>CH<sub>2</sub>OH)CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>- 10, Na 2-ethylhexyl sulfate 10.5, F(CF<sub>2</sub>CF<sub>2</sub>)<sub>3</sub>-8CH<sub>2</sub>CH<sub>2</sub>SCH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Li (Zonyl FSA) 2, and H<sub>2</sub>O 65 lb (viscosity .apprx.3 P at room temperature) was diluted to 3%, foamed, and applied at 0.04 gal/min-ft<sup>2</sup> to burning heptane, giving a control time of 1:15 and an extinguishing time of 1:50.

IT **126-92-1**, 2-Ethylhexyl sodium sulfate  
 RL: USES (Uses)  
 (foaming agents, concs. containing, for fire extinguishing)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 37 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1986:610833 HCAPLUS

DN 105:210833

TI Gelled **detergent** composition for cleaning pads

IN Magyar, Arpad M.

PA Pennzoil Co., USA

SO U.S., 6 pp.

CODEN: USXXAM

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4613446	A	19860923	US 1985-711151	19850313 <--
PRAI	US 1985-711151		19850313	<--	
OS	MARPAT 105:210833				

AB A gelled **detergent** composition containing water, alkali metal hydroxide, alkali metal phosphate, wetting agent, fatty acid, chelating agent, and surfactant is useful in a cleaning device such as a plastic mesh pad or sponge for the cleaning of whitewall tires, vinyl tops, and bumpers of automobiles, etc. Thus, a mixture of H<sub>2</sub>O 56.49, 50% aqueous NaOH 4.50, K tripolyphosphate 3.00, Na 2-ethylhexyl sulfate 10.00, stearic acid 15.00, EDTA 0.50, Triton X 102 10.00, blue dye 0.01, and pine oil 0.50% was heated to 180° F, added to a plastic mesh pad, and gelled by cooling to prepare a cleaning pad.

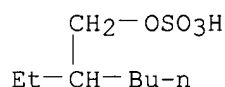
IT **126-92-1**

RL: USES (Uses)

(**detergent** gels containing, cleaning pads impregnated with)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 38 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN .

AN 1986:502365 HCAPLUS

DN 105:102365

TI Liquid cleansing composition

IN Eoga, Anthony B. J.

PA Warner-Lambert Co., USA

SO Eur. Pat. Appl., 23 pp.

CODEN: EPXXDW

DT **Patent**

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 186436	A2	19860702	EP 1985-309247	19851218 <--
	EP 186436	A3	19880302		
	EP 186436	B1	19920318		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	CA 1255233	A1	19890606	CA 1985-498030	19851218 <--
	AT 73646	T	19920415	AT 1985-309247	19851218 <--
	AU 8551511	A	19860626	AU 1985-51511	19851220 <--
	AU 589932	B2	19891026		
	ZA 8509781	A	19860827	ZA 1985-9781	19851220 <--
	JP 62000008	A	19870106	JP 1985-285948	19851220 <--
PRAI	US 1984-684818	A	19841220	<--	
	EP 1985-309247	A	19851218	<--	

OS MARPAT 105:102365

AB A liquid cleanser composition, particularly useful as a denture cleanser comprises (1) a sulfonated or sulfated fatty alc. **detergent**, ROSO<sub>3</sub>M (R = C<sub>10</sub>-16 alkyl; M = alkali metal), (2) a chelating agent of the aminocarboxylate or organophosphonate type, and (3) 50-98% water. The composition is designed to be delivered to the surface through a spray pump system. Thus, a denture cleanser was formulated containing Na lauryl sulfate 10, Na<sub>4</sub>-EDTA 5, flavor, color, preservative 0.5, and water 85.5%. The composition was sprayed on tiles with plaque and food stains. The tiles cleaned by the above composition for 2 min were significantly cleaner than those cleaned with com. denture tablets.

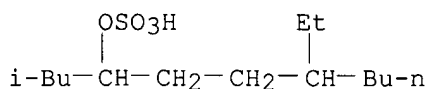
IT **139-88-8**

RL: BIOL (Biological study)

(denture cleanser containing chelating agent and)

RN 139-88-8 HCAPLUS

CN 4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



● Na

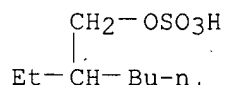
L133 ANSWER 39 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1981:499697 HCAPLUS  
 DN 95:99697  
 TI Cationic liquid laundry **detergent** and fabric softener  
 IN Beeks, Michael J.; Wysocki, Allen J.  
 PA De Soto, Inc., USA  
 SO U.S., 9 pp.  
 CODEN: USXXAM  
 DT **Patent**  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4264457	A	19810428	US 1980-118591	19800204 <--
	CA 1141506	A1	19830222	CA 1980-362062	19801009 <--
PRAI	US 1980-118591	A	19800204	<--	

AB Liquid **detergents** for the simultaneous washing and softening of fabrics contain nonionic surfactants, anionic surfactants such as Na. 2-ethylhexyl sulfate (I) [**126-92-1**] and an alkyl ether sulfate, and cationic surfactants such as RN+Me<sub>3</sub> Cl<sup>-</sup> (R = tallow alkyl) (II) and [[RN+Et[(CH<sub>2</sub>CH<sub>2</sub>O)mH] [(CH<sub>2</sub>CH<sub>2</sub>O)nH] 2SO<sub>4</sub><sup>2-</sup> (R = coco alkyl, m + n = 15) (III). Thus, a **detergent** contained H<sub>2</sub>O ≈80, Nonoxynol 8 [26027-38-3] 5, whitener 0.3, I 1.9, RO(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>SO<sub>3</sub>Na (R = C<sub>12</sub>-15 alkyl, average n = 3) 1.9, N(CH<sub>2</sub>CH<sub>2</sub>OH)<sub>3</sub> 2.5, III 2.1, II 4, and cocoamidopropyldimethylamine oxide 2.5 parts.

IT **126-92-1**  
 RL: USES (Uses)  
 (liquid **detergents** containing, for washing and softening of textiles)

RN 126-92-1 HCAPLUS  
 CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)

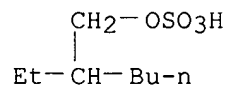


● Na

L133 ANSWER 40 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1981:123541 HCAPLUS  
 DN 94:123541  
 TI Aqueous thickened bleach composition including alkali metal hypochlorite  
 IN Citrone, Anthony Maurice; Pontin, Stephen Boyd

PA Reckitt and Colman Products Ltd., UK  
 SO Eur. Pat. Appl., 21 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 21581	A1	19810107	EP 1980-301554	19800513 <--
	EP 21581	B1	19851218		
	R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	GB 2051162	A	19810114	GB 1980-15582	19800512 <--
	AT 13073	T	19850515	AT 1980-301554	19800513 <--
	AT 17022	T	19860115	AT 1980-301554	19800513 <--
	ZA 8002871	A	19810729	ZA 1980-2871	19800514 <--
	US 4282109	A	19810804	US 1980-149974	19800515 <--
	CA 1149558	A1	19830712	CA 1980-352111	19800516 <--
	AU 8058653	A	19801204	AU 1980-58653	19800522 <--
	AU 536094	B2	19840419		
	BR 8003248	A	19801230	BR 1980-3248	19800523 <--
	NO 8001570	A	19801201	NO 1980-1570	19800527 <--
	NO 155546	B	19870105		
	NO 155546	C	19870422		
	DK 8002322	A	19801201	DK 1980-2322	19800529 <--
	DK 155836	B	19890522		
	DK 155836	C	19891016		
	IN 151487	A1	19830507	IN 1980-CA641	19800530 <--
PRAI	GB 1979-18721	A	19790530	<--	
	EP 1980-301554	A	19800513	<--	
AB	A C13-15- or C12-16-alkyldimethylamine oxide and a Na C8-12-alkyl sulfate are used to thicken bleaching solns. containing NaOCl. The solns. have good viscosity stability and phase stability during storage. Thus, a solution prepared from NaOCl solution (15% available Cl, 14.4% NaCl) 66.67, 46.8% NaOH solution 2.14, 30% C13-15-alkyldimethylamine oxide (Synprolam 35DMO) solution 3.67, 33% Na 2-ethylhexyl sulfate [126-92-1] solution 0.36, perfume 0.125, and H2O 2.035 parts had cloud point 46° and initial viscosity 58 cP. After 21 days at 37° in darkness, the viscosity was 39 cP.				
IT	126-92-1				
	RL: USES (Uses)				
	(thickening agents, for sodium hypochlorite solns.)				
RN	126-92-1 HCAPLUS				
CN	Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)				



● Na

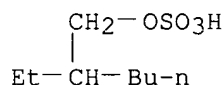
L133 ANSWER 41 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1979:56753 HCAPLUS  
 DN 90:56753  
 TI Antimicrobial bathroom cleaning compositions containing

o-benzyl-4-chlorophenol  
 IN Schwalley, Lawrence L.; Ferm, Donald J.  
 PA United States Borax and Chemical Corp., USA  
 SO U.S., 3 pp.  
 CODEN: USXXAM

DT **Patent**  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4124520	A	19781107	US 1977-807774	19770620 <--
	CA 1087063	A1	19801007	CA 1978-297557	19780223 <--
	GB 1576920	A	19801015	GB 1978-18949	19780511 <--
	DE 2825168	A1	19790111	DE 1978-2825168	19780608 <--
	JP 54008721	A	19790123	JP 1978-74064	19780619 <--
	JP 60004876	B	19850207		
	FR 2395035	A2	19790119	FR 1978-18390	19780620 <--
	FR 2395035	B2	19850712		
PRAI	US 1977-807774	A	19770620	<--	
AB	The germicidal cleaning compns. contain o-benzyl-4-chlorophenol (I) [120-32-1], Na 2-ethylhexyl sulfate (II) [126-92-1], a glycol solvent, and N(CH <sub>2</sub> CO <sub>2</sub> Na) <sub>3</sub> [5064-31-3] or EDTA tetra-Na salt (III) [64-02-8]. Thus, a cleaning composition contained I 0.15, II 4.5, III (38%) 12.5, hexylene glycol [107-41-5] 1, dodecylbenzenesulfonic acid 0.3, iso-PrOH 2.5, NaOH 0.0126, perfume 0.08, and water .apprx.79%.				
IT	126-92-1 RL: TEM (Technical or engineered material use); USES (Uses) (cleaning compns. containing, germicidal, for bathrooms)				
RN	126-92-1 HCAPLUS				
CN	Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)				



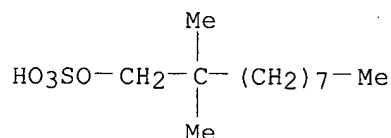
● Na

L133 ANSWER 42 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1975:481859 HCAPLUS  
 DN 83:81859  
 TI Liquid bleach and cleaning compositions  
 IN Nakagawa, Yunosuke; Inamoto, Yoshiaki; Aigami, Koji  
 PA Kao Soap Co., Ltd., Japan  
 SO Ger. Offen., 15 pp.  
 CODEN: GWXXBX

DT **Patent**  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2458100	A1	19750612	DE 1974-2458100	19741207 <--
	DE 2458100	B2	19800327		
	DE 2458100	C3	19801113		
	JP 50089280	A	19750717	JP 1973-139338	19731211 <--

JP 56005800 B 19810206  
 US 3929661 A 19751230 US 1974-531226 19741209 <--  
 GB 1466610 A 19770309 GB 1974-53352 19741210 <--  
 FR 2253826 A1 19750704 FR 1974-40819 19741211 <--  
 PRAI JP 1973-139338 A 19731211 <--  
 AB Stable liquid cleaning compns. were prepared which contained NaOCl, water, and RCM<sub>2</sub>CH<sub>2</sub>O(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>SO<sub>3</sub>Na (R = C<sub>8</sub>H<sub>17</sub> or C<sub>12</sub>H<sub>25</sub>, n = 0, 6, 8, or 20). Thus, 2 parts H(CH<sub>2</sub>)<sub>8</sub>CM<sub>2</sub>CH<sub>2</sub>OSO<sub>3</sub>Na (I) [18432-41-2] was mixed with 48 parts water and 50 parts aqueous solution containing NaOCl 12, NaCl 0.5, and NaOH 2% to give a transparent solution I was prepared from 1-decene [872-05-9] and isobutyric acid [79-31-2] at 140° in the presence of tert-Bu<sub>2</sub>O<sub>2</sub>, followed by reduction to the alc. with LiAlH<sub>4</sub> and treatment with SO<sub>3</sub> and NaOH.  
 IT **18432-41-2**  
 RL: USES (Uses)  
 (detergents containing sodium hypochlorite and, liquid)  
 RN 18432-41-2 HCAPLUS  
 CN 1-Decanol, 2,2-dimethyl-, hydrogen sulfate, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 43 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1973:104369 HCAPLUS  
 DN 78:104369  
 TI Chemiluminescent composition containing a surfactant  
 IN Cline, Edward T.  
 PA du Pont de Nemours, E. I., and Co.  
 SO U.S., 4 pp.  
 CODEN: USXXAM  
 DT **Patent**  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3714054	A	19730130	US 1965-507081	19651108 <--
PRAI	US 1965-507081	A	19651108	<--	
AB	Chemiluminescent compns. suitable as emergency light sources to aid sea rescue operations consisted of emulsions of oxyluminescent (R <sub>2</sub> N) <sub>2</sub> C:C(NR <sub>2</sub> ) <sub>2</sub> , where R is monovalent alkyl or cycloalkyl groups having ≤10 C atoms, in aqueous alkali containing non-ionic, cationic or amphoteric surfactants. Thus, a H <sub>2</sub> O-in-oil emulsion was prepared under N from 8.8 parts (by weight) of a com. surfactant of formula RN(C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> in which the RN residue was derived from coconut oil amine, 86 parts of (Me <sub>2</sub> N) <sub>2</sub> C:C(NMe <sub>2</sub> ) <sub>2</sub> , 123 parts acid-washed mineral oil, and 133 parts of 10% NaOH. The emulsion was agitated ultrasonically for 1 min. The emulsion produced a bright chemiluminescence when spread on glass fiber paper. The emulsion placed on H <sub>2</sub> O remained within a relatively small area and emitted				

blue-green light of good brightness for >1 hr.

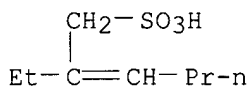
IT **40386-34-3**

RL: PRP (Properties)

(chemiluminescent composition containing, for sea rescue emergency light source)

RN 40386-34-3 HCAPLUS

CN 2-Hexene-1-sulfonic acid, 2-ethyl-, sodium salt (9CI) (CA INDEX NAME)



● Na

L133 ANSWER 44 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1973:59545 HCAPLUS

DN 78:59545

TI Biodegradable emulsifier for polychloroprene

IN Turner, Nathan Larry

PA Petro-Tex Chemical Corp.

SO Ger. Offen., 23 pp.

CODEN: GWXXBX

DT **Patent**

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2210957	A1	19721130	DE 1972-2210957	19720307 <--
	US 3759886	A	19730918	US 1971-144226	19710517 <--
	CA 1001799	A1	19761214	CA 1972-133094	19720124 <--
	IT 952080	B	19730720	IT 1972-48724	19720302 <--
	FR 2139235	A5	19730105	FR 1972-11093	19720329 <--
	GB 1382314	A	19750129	GB 1972-22787	19720516 <--
PRAI	US 1971-144226	A	19710517	<--	

AB Duponol 80 (Na octyl sulfate) [142-31-4] is used as the secondary emulsifier during the emulsion polymerization of chloroprene [126-99-8] with disproportionated rosin as the emulsifier. Duponol 80 is biodegradable, and the emulsifier solns. separated from coagulated polychloroprene [9010-98-4] can be discarded without removing the emulsifier.

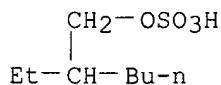
IT **126-92-1**

RL: USES (Uses)

(**detergents**, biodegradable, and preparation of neoprene rubber)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na



L133 ANSWER 45 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1973:44995 HCAPLUS

DN 78:44995

TI Wetting and rewetting agents for substrates such as paper and textiles

IN Tanner, Alan Roger; Milligan, John Gordon; Bertini, Angelo Joseph

PA Jefferson Chemical Co., Inc.

SO Ger. Offen., 16 pp.

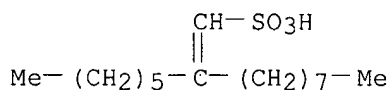
CODEN: GWXXBX

DT **Patent**

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2221667	A	19721116	DE 1972-2221667	19720503 <--
	GB 1389312	A	19750403	GB 1972-17870	19720418 <--
PRAI	US 1971-139873	A	19710503	<--	
	US 1971-139874	A	19710503	<--	
AB	The title wetting and rewetting agents, C12-20Na vinylidene olefinsulfonates, e.g., Na 2-hexyl-1-decenesulfonate (I) [ <b>38233-97-5</b> ], gave improved wetting results compared with those of the usual Na $\alpha$ -olefin sulfonates (II). Thus, aqueous 0.25% I solution had wetting time (Draves-Clarkson Wetting Test, AATCC Test Method 17-1952, 25.deg., 1.5 g hook weight, 0% oil in test yarn) <1.0 sec compared with 12.4 for the corresponding C16 II.				
IT	<b>38233-97-5</b>				
	RL: USES (Uses)				
	(wetting agents, for paper and textiles)				
RN	38233-97-5 HCAPLUS				
CN	1-Decene-1-sulfonic acid, 2-hexyl-, sodium salt, (9CI) (CA INDEX NAME)				



● Na

L133 ANSWER 46 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1973:22516 HCAPLUS

DN 78:22516

TI Surfactants as aids for film-forming molding compositions

IN Pollet, Robert J.; De Fre, Marcel C.; De Cat, Arthur H.

PA Agfa-Gevaert N.V., Belg.

SO Belg., 17 pp.

CODEN: BEXXAL

DT **Patent**

LA French

FAN.CNT 2

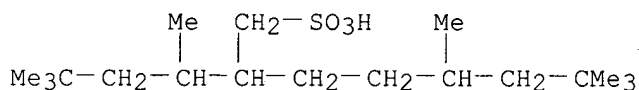
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 767724	A2	19711129	BE 1971-3116	19710527 <--
	FR 2095713	A5	19720211	FR 1971-19682	19710527 <--
	US 3793032	A	19740219	US 1971-150197	19710604 <--
PRAI	GB 1970-27080	A	19700604	<--	

AB Surfactants, RS03M [R = C10-20 alkyl or R1R2R3C(CH2)n (R1, R2 = alkyl or together form a cycloaliphatic nucleus; R3 = H, alkyl; n = 0, 1); M = H, alkali metal, ammonium, organic ammonium], added at 0.01-5% by weight of the colloid to coating compns. containing hydrophilic colloids, especially gelatin-Ag halide photog. emulsions, suppress the formation of static lines in photog. materials. Thus, isohexadecanol 914 g was treated with excess HBr yielded 1092 g isohexadecylbromide (I). I 305 g and thiourea 76 g were added to EtOH 600 ml and the residue recrystd. to yield isohexadecylthiourea bromide which was oxidized and saponified to yield Na isohexadecylsulfonate (II). The addition of 10 ml of a 5% aqueous solution of II/kg of gelatin-Ag halide emulsion gave a photog. material with 1 static line/m2 vs. 8 static lines/m2 for a control containing 15 ml of a 12% aqueous solution of saponin/kg of emulsion.

IT **35071-72-8**  
 RL: USES (Uses)  
 (surfactant, for photographic gelatin emulsions)

RN 35071-72-8 HCAPLUS

CN 1-Octanesulfonic acid, 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)-, sodium salt (9CI) (CA INDEX NAME)



● Na

L133 ANSWER 47 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1972:516392 HCAPLUS

DN 77:116392

TI Enzymic **detergents** containing citrate builders

IN Mast, Roy Clark

PA Procter and Gamble Co.

SO Ger. Offen., 40 pp.  
 CODEN: GWXXBX

DT **Patent**

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2161779	A	19720629	DE 1971-2161779	19711213 <--
IT	943885	B	19730410	IT 1971-32308	19711213 <--
NL	7117151	A	19720616	NL 1971-17151	19711214 <--
PRAI	US 1970-98114	A	19701214	<--	

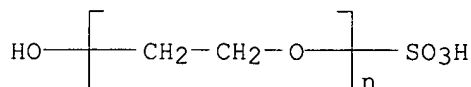
AB Biodegradable **detergent** compns., free of eutrophication-promoting polyphosphates, and active at .leq.54.deg. and pH 6-10 contained an organic syndet, e.g.  $\beta$ -(acyloxy)alkanesulfonate, alkyl oxyethylene ether sulfate, or  $\beta$ -alkoxyalkanesulfonate, K citrate (I) [7778-49-6] or Na citrate [994-36-5] builder, a proteolytic enzyme, and other common additives. Thus, a **detergent** composition of good cleaning properties contained Na  $\beta$ -acetoxyl-1-hexadecanesulfonate [16916-83-9] 40, I 40, NaCl 20, and pronase C 0.6 part.

IT **34503-11-2D**, Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt, tallow alkyl ethers

RL: TEM (Technical or engineered material use); USES (Uses)  
(**detergent** compns. containing, phosphate-free)

RN 34503-11-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -hydroxy-, monosodium salt  
(9CI) (CA INDEX NAME)



● Na

L133 ANSWER 48 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1972:503643 HCAPLUS

DN 77:103643

TI Rinse aid compositions

IN Crotty, Homer E.

PA W. R. Grace and Co.

SO U.S., 4 pp.

CODEN: USXXAM

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3563901	A	19710216	US 1970-18016	19700226 <--
PRAI	US 1970-18016	A	19700226	<--	

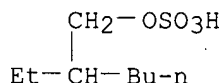
AB Dishwashing machines rinse aids which gave good sheet flow and little or no residue, were prepared from a nonionic surfactant and an alkali metal or NH<sub>4</sub> salt of an alc. sulfate. As an example, a rinse aid was prepared comprising water 40, Na 2-ethylhexyl sulfate [126-92-1] 25, Makon NF-5 20, 70% H<sub>3</sub>PO<sub>4</sub> 10, and an anionic surfactant 5%.

IT **126-92-1**

RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactants, for dishwashing rinse aides)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 49 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1972:422024 HCAPLUS

DN 77:22024

TI Low-foam anionic acid sanitizer compositions

IN Sedliar, Ronald M.; Garvin, Donald F.; Aepli, Otto T.

PA BASF Wyandotte Corp.  
 SO U.S., 4 pp.  
 CODEN: USXXAM

DT **Patent**  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3650964	A	19720321	US 1968-728766	19680513 <--
PRAI	US 1968-728766	A	19680513	<--	

AB The title compns. were prepared from anionic surfactants or blends of surfactants in an acid medium. Thus, a low-foaming sanitizer comprised Sul-Fon-Ate OA-5 5, 75% phosphoric acid [7664-38-2] 40, and water 55 parts. The sanitizer (100 ppm surfactant) killed >99.999% Escherichia coli and Staphylococcus aureus according to Association of Official Agricultural Chemists (1965) and U.S. Public Health Service (1965) standard tests. The foam volume after 1, 3, and 5 min shaking was 64, 7, and 2, resp., compared with 160, 140, and 135, resp., for a prior art sanitizer.

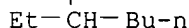
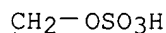
IT **126-92-1**

RL: USES (Uses)

(sanitizing compns. containing, low-foaming)

RN 126-92-1 HCAPLUS

CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 50 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1971:424778 HCAPLUS

DN 75:24778

TI Composition for destroying hardened cementitious mixtures

IN Haines, Robert G.

PA Union Carbide Corp.

SO U.S., 4 pp.

CODEN: USXXAM

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3577349	A	19710504	US 1969-795709	19690131 <--
PRAI	US 1969-795709		19690131	<--	

AB To remove concrete from various substrates such as ready-mix truck drums, the composition consists of methyl acetoacetate 60-99, H<sub>2</sub>O 1-40, and an anionic (I), cationic (II) or nonionic (III) **detergent** 0.5-5 by weight I is the alkyl sulfate or ethoxy sulfate of secondary alcs. (Tergitol 4, 6, 15-S-3S); II is 1-hydroxyethyl-2-heptadecenylglyoxalidine; III is the ethoxylate of branched secondary alcs. (Tergitol 15-S-3, 15-S-9). Residual traces of the composition do not adversely affect the properties of newly mixed concrete.

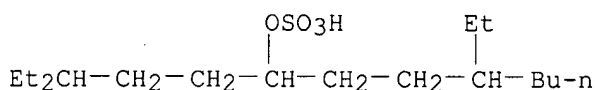
IT **3282-85-7**

RL: USES (Uses)

(disintegrating compositions, for hardened concrete)

RN 3282-85-7 HCAPLUS

CN 6-Tridecanol, 3,9-diethyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 51 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1966:439840 HCAPLUS

DN 65:39840

OREF 65:7476h,7477a-c

TI Surface active compositions

IN Weiss, Herbert D.; Gellner, Otto; Panzer, George W.

PA Alcolac Chemical Corp.

SO 9 pp.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3256202		19660614	US 1964-37179964	19640601 <--
PRAI	US		19640601	<--	

AB **Detergent** compns. having high cleansing activity and low foaming properties comprise mixts. of 5-85% of salts of C1-4 and of salts of C16-30 sulfated aliphatic alcs. with the average C content per mol. being 7-22. The lower-mol.-weight salts include Na Me sulfate (I), triethanolamine Me sulfate, Na Et sulfate (II), K Pr sulfate, Na Bu sulfate, etc. Typical higher mol. weight salts include com. Na lauryl sulfate (III), Na, NH4-, or triethanolamine cetyl sulfate, Na, Li, Mg, or diethanolamine stearyl sulfate, Na oleyl sulfate, or similar salts, such as Na salt of sulfated tallow (IV). Thus, the foaming of solns. of III was compared with similar characteristics of mixts. of high- and low-mol.-weight salts by subjecting 60-cc.-portions to 1 min. agitation with rotations of 50 rpm. With a concentration of 0.25% III, foam volume was 296 cc.; with 0.5% III it was 300+; with 0.25% concentration of mixture of 26 mole % of I and 74 mole % of IV, foam volume was 0 and with 0.5% concentration of mixture it was 80; with 0.25%

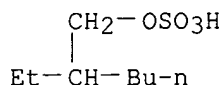
concentration of

mixture of 21 mole % of II and 79 mole % of IV, the foam was 15 cc.; and with 0.5% of the mixture, it was 100 cc. **Detergent** compns. containing phosphates, silicates, carbonates, sulfates, dyes, perfumes, etc., still maintain low foaming properties. A suggested formulation contains Na5P3O10 40, silicate (1:2 Na2O:SiO2) 12, Na2CO3 20, Na2SO4 10, and **detergent** 16 parts. When the **detergent** was a mixture of 9% II and 91% IV, the foam was about 50% of that when the **detergent** was III.

IT **126-92-1**, 1-Hexanol, 2-ethyl-, hydrogen sulfate, Na salt (cleaning compns. containing)

RN 126-92-1 HCAPLUS

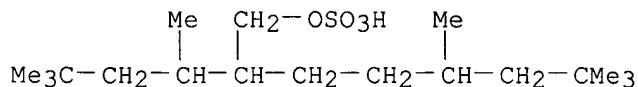
CN Sulfuric acid, mono(2-ethylhexyl) ester, sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L133 ANSWER 52 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1954:5607 HCAPLUS  
 DN 48:5607  
 OREF 48:1036a-c  
 TI 2-(1,3,3-Trimethylbutyl)-5,7,7-trimethyl-1-octanol sulfate  
 IN Pavlic, Albert A.  
 PA E. I. du Pont de Nemours & Co.  
 DT **Patent**  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2654772		19531006	US 1950-160587	19500506 <--
AB	The highly branched primary alkanol, obtained through aldol condensation of 3,5,5-trimethylhexanal followed by hydrogenation, is sulfated and the resulting acid is neutralized with an organic or inorg. base to give a high-speed wetting agent which is soluble in hydrocarbons, unlike straight-chain sulfonates. For example, 1611 g. 3,5,5-trimethylhexanal and 100 g. piperidine acetate are stirred at 98° for 7 hrs. and allowed to stand at 98° for 63 hrs. Distillation gives 855 g. octadecenal (I), b4.5 124-40°. I is hydrogenated with 5.3% Ni on kieselguhr at 155-60° and 700 atms. Distillation gives 661 g. of 2-(1,3,3-trimethylbutyl)-5,7,7-trimethyl-1-octanol, b6 120-48°, which is further purified by rehydrogenation and distillation, the purified alc. having n25D 1.4497, b7 146° or b3 141°. The alc. is treated with an equimol. weight of ClSO3H. This product is neutralized with NaOH to give a salt recoverable as a flaky solid.				
IT	<b>181355-81-7P</b> , 1-Octanol, 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)-, sulfate, Na salt RL: PREP (Preparation) (preparation of)				
RN	181355-81-7 HCAPLUS				
CN	1-Octanol, 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)				



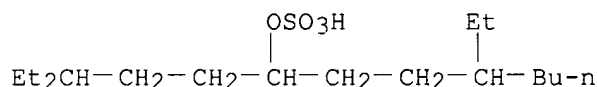
● Na

L133 ANSWER 53 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

jan delaval - 11 january 2007

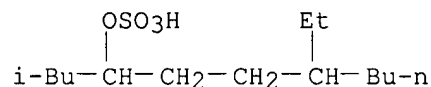
AN 1945:26183 HCAPLUS  
 DN 39:26183  
 OREF 39:4200h-i,4201a,4202a  
 TI Secondary alkyl sulfates in germicidal preparations  
 IN Baker, Zelma; Miller, Benjamin F.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2380011		19450710	US	<--
AB	Branched-chain secondary alkyl sulfates having 10-21 C atoms have marked wetting and <b>detergent</b> properties and ionize with the lipophylic group in the anion. They have the general formula R1R2CHSO4X where R1 and R2 are alkyl groups, either or both being branched-chain groups, and X is a cation like Na, Ca, NH4, or organic amine. A neutral solution 1:3000 of the Na salt of 3,9-diethyl-6-tridecanol strongly inhibits the metabolism of the Gram pos. Staphylococcus aureus, Staphylococcus albus, Sarcina lutes, Micrococcus tetragenus, and Lactobacillus; and the Gram neg. Proteus vulgaris. At a pH of about 5-4.5 the bactericidal action of 0.1-2.0% solns. of these compds. is enhanced. Formulas are given for an antiseptic and germicidal ointment, a brushless shaving cream, a toothpaste, and a liquid dentifrice, all containing the Na salt of sulfated 3,9-diethyl-6-tridecanol; and a mouth wash, and an after-shaving lotion containing the Na salt of sulfated 2-methyl-7-ethyl-4-hendecanol.				
IT	<b>3282-85-7P</b> , 6-Tridecanol, 3,9-diethyl-, acid sulfate sodium salt RL: PREP (Preparation) (preparation of)				
RN	3282-85-7 HCAPLUS				
CN	6-Tridecanol, 3,9-diethyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				



● Na

IT **139-88-8**, 4-Hendecanol, 7-ethyl-2-methyl-, sulfate, sodium salt  
 (uses of)  
 RN 139-88-8 HCAPLUS  
 CN 4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



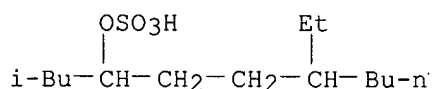
● Na

L133 ANSWER 54 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN

jan delaval - 11 january 2007

AN 1937:48772 HCAPLUS  
 DN 31:48772  
 OREF 31:6772i,6773a-c  
 TI 7-Ethyl-2-methyl-4-undecanol and intermediate compounds and derivatives  
 (solvents and **detergents**)  
 IN Wickert, Jacob N.; Freure, Benjamin T.  
 PA Union Carbide and Carbon Corp.  
 DT **Patent**  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2088021		19370727	US 1936-92504	19360725 <--
AB	<p>Me iso-Bu ketone will react with either ethylcaproaldehyde or ethylpropylacrolein to form a ketol which, upon dehydration, produces an unsatd. ketone. The latter, upon hydrogenation, yields a 14-C ketone and a 14-C secondary alc. The reactions involved are: MeCOCH<sub>2</sub>CHMe<sub>2</sub> + BuCH<sub>2</sub>CHO → Me<sub>2</sub>CHCH<sub>2</sub>COCH<sub>2</sub>CH(OH)CH<sub>2</sub>EtBu → (dehydration) → Me<sub>2</sub>CHCH<sub>2</sub>COCH:CHCH<sub>2</sub>EtBu (partial hydrogenation) → Me<sub>2</sub>CHCH<sub>2</sub>COCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>EtBu (hydrogenation) → Me<sub>2</sub>CHCH<sub>2</sub>CH(OH)CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>EtBu. This alc., upon subsequent sulfation, as with concentrated H<sub>2</sub>SO<sub>4</sub>, produces the monosulfate of the tetradecyl alc., which is then converted into the salt of the alkylsulfuric ester by treatment with a base, such as a NaOH solution. The sodium sulfate of this tetradecyl alc. is a clear, snow-white solid or wax. It is completely soluble in water and in methanol; and its solns. are effective <b>detergents</b>. Its water solution when shaken produces a voluminous stable foam. The 7-ethyl-2-methyl-4-undecanone b<sub>4</sub> 101-3° and b<sub>760</sub> 252-3° and there is conjointly obtained a product, presumably 7-ethyl-2-methyl-4-undecanol, b<sub>4</sub> 112-14° and b<sub>760</sub> 261-2°. Various details of procedure are described.</p>				
IT	<p><b>139-88-8P</b>, 4-Hendecanol, 7-ethyl-2-methyl-, sulfate, sodium salt          RL: PREP (Preparation)          (preparation of)</p>				
RN	139-88-8 HCAPLUS				
CN	4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				

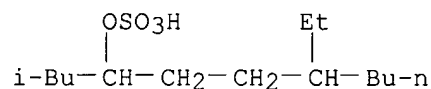


● Na

L133 ANSWER 55 OF 55 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1937:48771 HCAPLUS  
 DN 31:48771  
 OREF 31:6772f-i  
 TI **Detergent** and emulsifying compositions comprising salts of sulfate esters of saturated secondary branched-chain monohydric aliphatic alcohols  
 IN Wickert, Jacob N.  
 PA Union Carbide and Carbon Corp.  
 DT **Patent**  
 LA Unavailable  
 FAN.CNT 1



	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2088020		19370727	US	<--
AB	<p>As cleansing and emulsifying agents suitable for use alone or with other <b>detergents</b> such as soap or Na<sub>2</sub>CO<sub>3</sub>, there are used derivs. of 3-methyl-2-heptanol, 3-ethyl-6-heptanol, 2-methyl-4-nonanol, 5-ethyl-2-nonanol, 3-ethyl-8-methyl-6-nonanol, 3-ethyl-6-undecanol, 7-ethyl-2-methyl-4-undecanol, 3,9-diethyl-6-undecanol, 5-ethyl-8-tridecanol, 9-ethyl-5-methyl-6-tridecanol, 3,9-diethyl-6-tridecanol, 5,11-diethyl-8-pentadecanol, 7-ethyl-2-methyl-4-undecanol, 3,9-diethyl-6-tridecanol, 5,11-diethyl-8-pentadecanol, 7-ethyl-2-methyl-4-undecanol, 3,9-diethyl-6-tridecanol, or 5,11-diethyl-8-pentadecanol, such as Na octyl sulfate, Na nonyl sulfate, Na decyl sulfate, Na undecyl sulfate, Na dodecyl sulfate, Na tridecyl sulfate, Na tetradecyl sulfate, Na pentadecyl sulfate, Na pentadecyl sulfate, Na hexadecyl sulfate, Na heptadecyl sulfate, Na nondecyl sulfate, *M. E. A. tetradecyl sulfate, *M. E. A. heptadecyl sulfate, *M. E. A. nondecyl sulfate, **T. E. A. tetradecyl sulfate, **T. E. A. heptadecyl sulfate or **T. E. A. nondecyl sulfate. (*M. E. A. designates monoethanolamine. **T. E. A. designates triethanolamine.) The sulfate derivs. of alcs. having at least 14 C atoms in their mol. are especially effective as <b>detergents</b> in either a neutral or an alkaline medium, for treating silk or cotton, etc.</p>				
IT	<p><b>139-88-8P</b>, 4-Hendecanol, 7-ethyl-2-methyl-, sulfate, sodium salt            RL: PREP (Preparation)            (preparation of)</p>				
RN	139-88-8 HCAPLUS				
CN	4-Undecanol, 7-ethyl-2-methyl-, hydrogen sulfate, sodium salt (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)				



● Na

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(FILE 'HOME' ENTERED AT 08:43:10 ON 11 JAN 2007)  
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 08:43:27 ON 11 JAN 2007

L1	1 S (US6150322 OR US5849960)/PN OR (US98-133303# OR US96-755843#)
	E SINGLETON/AU
	E SINGLETON D/AU
L2	68 S E3,E12,E20,E26,E27
	E KRAVETZ/AU
L3	46 S E18-E22
	E MURRAY/AU
L4	2 S E3
	E MURRAY B/AU
L5	28 S E3
	E MURRAY BREND/AU
L6	78 S E6,E8,E9,E10

jan delaval - 11 january 2007

L7           E ALCOHOL/CW,CT  
           1192 S E3,E4  
           E ALCOHOLS/CW,CT  
 L8           149569 S E3,E4,E5  
 L9           150758 S L7,L8  
 L10          1020 S L9 (L) BRANCH?  
 L11          38 S L10 (L) (SULFAT? OR SULPHAT?)  
 L12          2 S L1-L6 AND L11  
 L13          13 S L11 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)  
 L14          1 S L12 AND L13  
 L15          13 S L13,L14  
 L16          210 S L1-L6 NOT L12  
 L17          42 S L16 AND L9  
 L18          17 S L17 AND L10  
 L19          9 S L18 AND (?SULFAT? OR ?SULPHAT?)  
 L20          8 S L19 NOT 60/SC  
 L21          8 S L18 NOT L19  
 L22          2 S L18 AND (?SULFONAT? OR ?SULPHONAT?)  
 L23          1 S L22 NOT 60/SC  
 L24          167 S L10 AND (?SULFAT? OR ?SULPHAT?)  
 L25          114 S L10 AND (?SULFONAT? OR ?SULPHONAT?)  
 L26          62 S L24,L25 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)  
 L27          71 S L14,L20,L23,L26

FILE 'REGISTRY' ENTERED AT 08:56:41 ON 11 JAN 2007

FILE 'HCAPLUS' ENTERED AT 08:56:41 ON 11 JAN 2007

L28           TRA L27 1- RN :           615 TERMS

FILE 'REGISTRY' ENTERED AT 08:56:43 ON 11 JAN 2007

L29          615 SEA L28  
 L30          86 S L29 AND UNSPECIFIED  
 L31          51 S L30 AND ENTE/FA  
 L32          529 S L29 NOT L30  
 L33          114 S L32 AND S/ELS  
 L34          111 S L33 AND O/ELS  
 L35          59 S L34 AND PMS/CI  
 L36          56 S L35 NOT (N/ELS OR "(C2H4O)NC12H22O7S.NA"/MF)  
 L37          3 S L35 NOT L36  
 L38          1 S 181355-78-2  
 L39          57 S L36,L38  
 L40          52 S L34 NOT L35  
 L41          19 S L40 AND NR>=1  
 L42          33 S L40 NOT L41  
 L43          19 S L42 AND C>=8  
 L44          12 S L43 AND (C16H34O4S OR C18H38O4S OR C12H26O4S OR C17H36O4S OR  
           SEL RN 9-12  
 L45          8 S L44 NOT E1-E4  
 L46          STR  
 L47          8 S L46 CSS SAM  
 L48          STR L46  
 L49          2 S L48 CSS  
 L50          458 S L48 CSS FUL  
           SAV L50 OGDEN655/A  
 L51          19291 S C2H4O AND S/ELS  
 L52          8375 S L51 NOT C6/ES  
 L53          3525 S L52 NOT (N OR P OR SI)/ELS  
 L54          2962 S L53 AND 1/S  
 L55          1881 S L54 NOT PROPEN?  
 L56          568 S L55 AND NR>=1

L57 399 S L56 AND OC2/ES  
 L58 389 S 75-21-8/CRN AND L57  
 L59 43 S L58 AND 1/NR  
 L60 1313 S L55 NOT L56  
 L61 690 S L60 AND (S AND C AND O AND H)/ELS AND 4/ELC.SUB  
 L62 178 S L61 AND OXO  
 L63 512 S L61 NOT L62  
 L64 STR  
 L65 2 S L64 CSS SAM SUB=L63  
 L66 92 S L64 CSS FUL SUB=L63  
 SAV L66 OGDEN655A/A  
 L67 45 S L66 NOT L39,L45  
 L68 43 S L67 NOT C4H10O2S  
 L69 11 S L68 AND ("(C2H4O)NC18H38O5S" OR "(C2H4O)NC20H42O6S" OR "(C2H4  
 L70 3 S L68 AND ("(C2H4O)NC19H40O6S" OR "(C2H4O)NC18H38O6S" OR "(C2H4  
 L71 29 S L68 NOT L69,L70  
 L72 546 S L39,L45,L50,L71  
 SAV L72 OGDEN655B/A  
 L73 460 S L72 NOT C2H4O  
 L74 86 S L72 NOT L73  
 L75 7 S L74 AND ("(C2H4O)NC12H26O4S.NA" OR "(C2H4O)NH2O4S" OR "(C2H4O  
 SEL RN 1-3  
 L76 3 S E5-E7  
 L77 4 S L75 NOT L76  
 L78 82 S L74 NOT L77  
 SAV L78 OGDEN655C/A  
 SAV L73 OGDEN655D/A  
 L79 213 S L73 AND NC>=2  
 L80 2 S L79 AND PMS/CI  
 L81 211 S L79 NOT L80  
 L82 24 S L81 NOT SALT  
 L83 5 S L82 AND (C6H15N OR C6H15NO3 OR C20H43N OR C12H26O5S)  
 L84 187 S L81 NOT L82  
 L85 14 S L84 AND (NR>=1 OR IUM)  
 L86 4 S L85 AND H3N  
 L87 173 S L84 NOT L85  
 L88 170 S L87 NOT (11C# OR 13C# OR 14C# OR C11# OR C13# OR C14# OR LABE  
 L89 179 S L83,L86,L88  
 SAV L89 OGDEN655E/A  
 L90 32 S L81 NOT L89  
 L91 1 S L90 AND C12H26O4S  
 L92 180 S L89,L91

FILE 'HCAPLUS' ENTERED AT 09:42:16 ON 11 JAN 2007

L93 785 S L92  
 L94 298 S L78  
 L95 257 S L93 AND PY<=1996 NOT P/DT  
 L96 256 S L93 AND (PD<=19961126 OR PRD<=19961126 OR AD<=19961126) AND P  
 L97 513 S L95,L96  
 L98 50 S L94 AND PY<=1996 NOT P/DT  
 L99 109 S L94 AND (PD<=19961126 OR PRD<=19961126 OR AD<=19961126) AND P  
 L100 159 S L98,L99  
 L101 145 S L97 AND DETERGENT?/SC,SX,CW,CT,BI  
 L102 80 S L100 AND DETERGENT?/SC,SX,CW,CT,BI  
 E DETERGENT/CT  
 L103 2865 S E61-E68  
 L104 1141 S E2+OLD,NT  
 L105 912 S E4+OLD,NT  
 L106 47324 S E12-E60  
 E E12+ALL

L107 23497 S E73+OLD,NT OR E76+OLD,NT  
L108 59 S L97 AND L103-L107  
L109 46 S L100 AND L103-L107  
L110 147 S L101,L108  
L111 81 S L102,L109  
L112 0 S L1-L6 AND L110,L111  
SEL RN L1

FILE 'REGISTRY' ENTERED AT 09:47:10 ON 11 JAN 2007  
L113 7 S E1-E7

FILE 'HCAPLUS' ENTERED AT 09:47:30 ON 11 JAN 2007  
L114 1 S L113 AND L1  
L115 1 S L114 AND L7-L27  
E SHAMPOO/CT  
L116 9455 S E8+OLD,NT OR E8-E11  
E SCORING/CT  
E SCOURING/CT  
L117 1182 S E5+OLD,NT OR E5,E6,E7,E8,E9  
L118 3 S L97 AND L116,L117  
L119 16 S L100 AND L116,L117  
L120 148 S L110,L118  
L121 92 S L111,L119  
L122 74 S L120 AND P/DT  
L123 44 S L122 AND US/PC,PRC,AC  
L124 18 S L123 NOT DETERGENT?/SC  
L125 8 S L124 AND (TEXTILE? OR COSMETIC?)/SC  
L126 44 S L123,L125  
L127 58 S L121 AND P/DT  
L128 15 S L127 AND US/PC,PRC,AC  
L129 5 S L128 NOT DETERGENT?/SC  
L130 4 S L129 AND (TEXTILE? OR COSMETIC?)/SC  
L131 1 S L129 NOT L130  
L132 14 S L128 NOT L131  
L133 55 S L126,L132

FILE 'REGISTRY' ENTERED AT 09:57:57 ON 11 JAN 2007

FILE 'HCAPLUS' ENTERED AT 09:58:17 ON 11 JAN 2007  
L134 11 S L12,L20,L23 AND L1-L7  
L135 10 S L134 NOT L1  
L136 0 S L135 AND (PY<=1996 OR PRY<=1996 OR AY<=1996)

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